

# Final Report of the National Institute of Science and Technology in Astrophysics (INCT-A)

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## *What is the INCT-A? – An executive summary*

### *Context*

*Brazilian Astronomy, although young, has already made some important achievements. The first graduate programs were established in the 1970's and, since then, the community experimented continuous and vigorous growth. Today nearly 30 institutions support of astronomical research at some level. The first scientific equipment were planned and built in the early 1970's; an important strategic step was the construction of LNA – the first (and for long time the only one) national laboratory to operate in Brazil. Thanks to this laboratory, Brazilian Astronomy experienced a growth, both in quantity and in quality. This allowed joining the Gemini and SOAR consortia in the 1990's. These consortia operate world class astronomical instruments.*

*The situation of optical and infrared astronomy is, thus, quite favorable. The participation in the Gemini and SOAR consortia has put our community in contact with the best practices of science management and, at the same time, integrated networks of specialists. Although the SOAR telescope does not have its full instrumentation operational, we already can state that Brazilian contribution to the publications of both Gemini and SOAR consortia is at the highest ranking. At the same time the perspective of world-class instrumentation has revitalized the various groups and attracted young talented people to the graduate programs.*

*For the next decade, world astronomy is planning new and significant steps. At all wavelengths, a next generation of telescopes is under construction: optical 20-40m class (GMT, TMT, ELT) telescopes, radio-interferometers (ALMA, SKA), a new*

generation of space-borne instruments (IXO, Webb) and a large deep optical survey telescope (LSST). Many of these equipments are multinational initiatives, given the high costs involved, some of them, in the range of a billion dollars and will take 10 to 15 years to be built. Direct participation in such projects is beyond our possibilities, but there are niches from which our astronomy may benefit. The form and intensity of these benefits depend on some new investments but mostly on careful and strategic planning. If this is not done, our community will have less and less opportunities in the international scenarios for the coming decades.

In the present INCT, a significant number of researchers from many institutions meet, to plan and implement actions, having in mind the future of Brazilian Astronomy. We are researchers from diverse institutions and of distinct specialties, but we all need the same scientific infrastructure and above all, similar collective strategies. These are the characteristics that provide the **unity** to this initiative. These strategies are more and more necessary, given the high costs of the new research equipment and timescales needed for their construction.

Our community already has a national laboratory (LNA) that operates the national infrastructure in optical and infrared astronomy. The INCTA aims toward a partnership with LNA and other institutions to mobilize the community in fostering the best insertion of Brazilian Astronomy in the great international projects underway and those that still will be proposed.

Moreover, we want to promote the culture of technological innovation by supporting the development of world class instrumentation aimed at basic research.

If in the recent past Brazilian Astronomy has advanced in a significant way, its future depends on our planning and organization capabilities. New large and expensive projects are under way in the developed countries, many of them in the form of international consortia, given their high costs, which are prohibitive toward our direct participation. However it is possible to create alternative routes, identifying niches that can bring benefits to our science through creative strategies of international cooperation.

Such associations will increase the networking, both institutional and individual, showing us the best international practices of organization, planning and management of science. This effort is of fundamental importance to provide the environment for the next generation of scientist to perform frontier research.

The “Instituto Nacional em Ciência e Tecnologia em Astrofísica – INCTA”, in addition to the host institute, has one associated laboratory (LNA), 3 other MCT research institutes, 14 federal universities, 3 state universities and 6 private universities, comprising a total of 32 research groups, 12 being consolidated and 20 emerging ones in 27 different institutions. A total of 173 PhD scientists are joining the institute; 79 of them have CNPq scientific productivity fellowship, 12 being level 1A.

### **Mission**

The mission of the National Institute of Science and Technology in Astrophysics is to insert Brazilian Astronomy into the future of the World Astronomy.

## Strategic Goals

### *1- Maximizing the return from the Gemini and SOAR telescopes.*

*a) Scientific return: Brazil already presents the highest productivity index among the Gemini partners (Brazilians have used 2.3% of the time and published 10% of the papers). For the SOAR telescope this statistical comparison is still premature as the telescope was built about 5 years later than Gemini. Surely the numbers that matter are not only the number of papers. Quality is also relevant. As a goal, we propose that Brazil maintains the leadership in scientific productivity for both Gemini and SOAR consortia for the next 5 years.*

*b) Graduate programs: There are 11 graduate programs that offer Master+PhD programs in Astronomy (USP; UFRGS; UFMG; ON; INPE; UFRN; UFSC; UNIVAP; UFMS; OV-UFRJ, FEG-UNESP). Another 4 offer master degree only (UNICSUL; UNIFEI; UESC; UERN). The possibilities opened with the access to the Gemini and SOAR telescopes have attracted many new talented people to Astronomy. Today we have a good number of promising talented young people in our graduate programs and integrating them in the scientific production with the use of large telescopes and world-class instruments is one of the most effective ways of attracting and educating more talented people. Our goal is to double the number of papers published by Brazilian graduate students with data from the Gemini and SOAR telescopes in the next 3 years (2009-11 compared to 2006-08) with a following growth of 15% per year.*

*c) Supporting emerging groups: Besides attracting and educating talented people, we also want them to get a job in our country. Our major research institutes seem to be saturated growth wise. At the same time, the vast majority of universities do not have a single astronomy professor. In recent years Brazilian Astronomy has, in fact, experimented a new phenomenon: non-traditional universities, both public and private, have hired a number of young and productive astronomers in their faculty. These new groups, often very small in number, need to be supported, integrated in networks and have access to the best existing equipment. Our goal is to double the number of papers published with authors from emerging groups with data obtained from Gemini, SOAR and alike, for the next 3 years, followed by a growth of 15% per year. Among other incentives, INCTA will provide support to their research, by supplying computer equipment to researchers that obtain observing time with large telescopes provided they are justified within the aims of the Institute. We propose to support the participation of people from emerging groups in scientific meetings when presenting results from large telescopes. These groups will also have access to financial support to foster national and international networking, that is, contact with scientists for seminars, to avoid intellectual isolation, as most of these groups are located far from the main centers.*

*d) Stimulate the development of instrumentation for the Gemini and SOAR telescopes. The Brazilian participation in the Gemini and SOAR consortia has allowed, for the first time, the effective construction of modern instruments for large telescopes. Currently Brazil is concluding the construction of the SIFS – SOAR Integral Field Spectrograph – with 1300 fibers, capable of operating with adaptive optics. Other two instruments are in distinct phases of construction: the Steles (high resolution spectrograph) and the BTFI*

(Fabry-Perot large field imaging spectrograph). Our goal: to conclude the construction and commissioning of the three instruments underway and begin a new one in the next three years.

**2 – Brazilian Astronomy in the era of the LSST and ELT projects.** The next generation of large telescopes is being planned now. The GMT, TMT and E-ELT are in the process of starting their construction. It is important for Brazilian astronomy to establish a strategy for the era of ELTs, that will be operational by the year 2020. The Large Synoptic Survey Telescope, on the other hand, is a North-American initiative for building and operating a telescope of 6.5 m effective aperture (8.4m nominal) to monitor the sky in 6 filters. This will be a deep survey with an unprecedented approach in the sense that it will revisit the same regions in the sky at about every 4 days, so that it will add a temporal dimension to the data. The magnitude limit for single observations will be  $r \sim 24$  and it will have a cumulative limit of  $r \sim 27.5$ . This project has 4 main broad goals: a) the nature of dark energy and dark matter; b) The transient sky; c) The structure of the Milky Way and d) The structure of the Solar System. This project will make some observations available in real time having profound impact on Brazilian Astronomy.

**3 – Virtual observatories.** Great part of the data from space missions and also from ground based telescopes is available in databases. These datasets contain a wealth of information and mining them may be of enormous benefit to Brazilian Astronomy, without proportional financial investments. Significant effort in software is imperative to make the appropriate and necessary development. Our goal is to have an operational network of virtual observatories in Brazil within the next 3 years.

**4 – New projects of scientific equipment.** A minimum of 3 new projects, to be defined by the Science committee, will be elaborated and proposed: at least one in radio-astronomy, at least one scientific satellite and at least one in optical/infrared astronomy. These projects will be elaborated to the point where they can be presented to the funding agencies or to possible international partners.

**5 – Education activities:** Brazil has currently about 300 000 teachers of Science and Mathematics. The content and knowledge of Astronomy is minimum. We propose to organize a distance learning course on Astronomy for science teachers all over the Country. The idea is to establish a virtual ambient for an online “distance learning course”. We propose to establish partnerships with the State Governments and Universities to create a large network to foster this idea.

## ***INCT-A: Institutions***

*INCT-A is a network of 173 researchers of the following institutions*

### ***Host Institution:***

*Instituto de Astronomia, Geofísica e Ciências Atmosféricas – Universidade de São Paulo*

### ***Associated Laboratory:***

*Laboratório Nacional de Astrofísica – LNA*

### ***Associated Universities and Institutes (33):***

1. *\*FURG – Fundação Universidade do Rio Grande – RS*
  2. *\*UCS – Universidade de Caxias do Sul - RS*
  3. *\*UDESC – Universidade para o Desenvolvimento do Estado de Sta. Catarina - SC*
  4. *\*UEFS – Universidade Estadual de Feira de Santana - BA*
  5. *\*UEL – Universidade Estadual de Londrina -PR*
  6. *\*UFABC – Universidade Federal do ABC-SP*
  7. *\*UFJF – Universidade Federal de Juiz de Fora-MG*
  8. *\*UFPel – Universidade Federal de Pelotas-RS*
  9. *\*UFS- Universidade Federal de Sergipe - SE*
  10. *\*UFSCar - Universidade Federal de São Carlos – SP*
  11. *\*UFMS – Universidade Federal de Santa Maria-RS*
  12. *\*UNICSUL – Universidade Cruzeiro do Sul - SP*
  13. *\*UNIFEI – Universidade Federal de Itajubá-MG*
  14. *\*UNIFESP - Universidade Federal de São Paulo - SP*
  15. *\*UNIPAMPA – Universidade Federal do Pampa-RS*
  16. *\*UNIVAP- Universidade do Vale do Paraíba - SP*
  17. *\*UNIVASF – Universidade Federal do Vale do São Francisco-PE*
  18. *Centro Brasileiro de Pesquisas Físicas - CBPF*
  19. *CTA/MD – Comando Tecnológico da Aeronáutica – SP*
  20. *Instituto Nacional de Pesquisas Espaciais – INPE*
  21. *Observatório Nacional – ON*
  22. *UESC – Universidade Estadual de Santa Cruz – Ilhéus/BA*
  23. *\*UFFS – Universidade Fderal da Fronteira Sul – Cerro Largo-RS*
  24. *UFMG – Universidade Federal de Minas Gerais-MG*
  25. *UFRGS – Universidade Federal do Rio Grande do Sul-RS*
  26. *UFRJ – Universidade Federal do Rio de Janeiro-RJ*
  27. *UFSC – Universidade Federal de Santa Catarina-SC*
  28. *UNB – Universidade de Brasília - DF*
  29. *UNESP – Universidade Estadual Júlio de Mesquita Filho-SP*
  30. *Universidade Presbiteriana Mackenzie – SP*
  31. *\*UFSJ – Universidade Federal de São João Del Rey – MG*
  32. *\*UFV – Universidade Federal de Viçosa - MG*
  33. *\*UFPA – Universidade Federal do Pará – PA*
  34. *\*UFRR – Universidade Federal de Roraima - RR*
- (\*) – Emergent groups*



# 1. Results obtained by the INCTA in the period 2009-2016.

We will report here our main results obtained during the last 7 years. It is important to notice that this INCT is quite large (and productive in terms of papers published). Its nature is quite distinct from the vast majority of the others in the sense that it has a strategic approach. We want to address issues that we believe to be essential for the future of Brazilian Astronomy.

## 1.1- Maximizing the return from the Gemini and SOAR telescopes.

### a) *Scientific return*

When the INCTA was proposed, Brazilian astronomy was growing at a rate of ~1% per year. This was a rate much smaller than its previous growth of 11% during the period 1970-2000. The program proposed by INCTA has a very clear strategic nature, to change this rhythm and insert Brazilian Astronomy in the international scene.

The Gemini and SOAR telescopes offer the possibility reach such a goal. After 7 years, it is time to assess the current status. In the following table (Table A) we show the number of papers per telescope in the period 2001-2016.

	<i>Gemini</i>	<i>SOAR</i>	<i>CFHT</i>	<i>OPD</i>	<i>Total</i>
2015+16	41	16	9	27	93
2013+14	44+1*	26+4*	9+1*	27	104+1**+6*
2011+12	32+1*	12+3*	1+2*	31+2*	76+8*
2009+10	29	11+5*	-	29	69+5*
2007+08	23	8+2*	-	27	58+2*
2005+06	14	6+1*		47	67+1*
2003+04	8	0+2*		36+1*	44+3*
2001+02	1			43	44
Até 2000				235	235
Total	192+2*	79+16*	19+3*	502+3*	792+23*

Papers with (\*) are on instrumentation.  
Papers with data from more than one telescope have (\*\*).

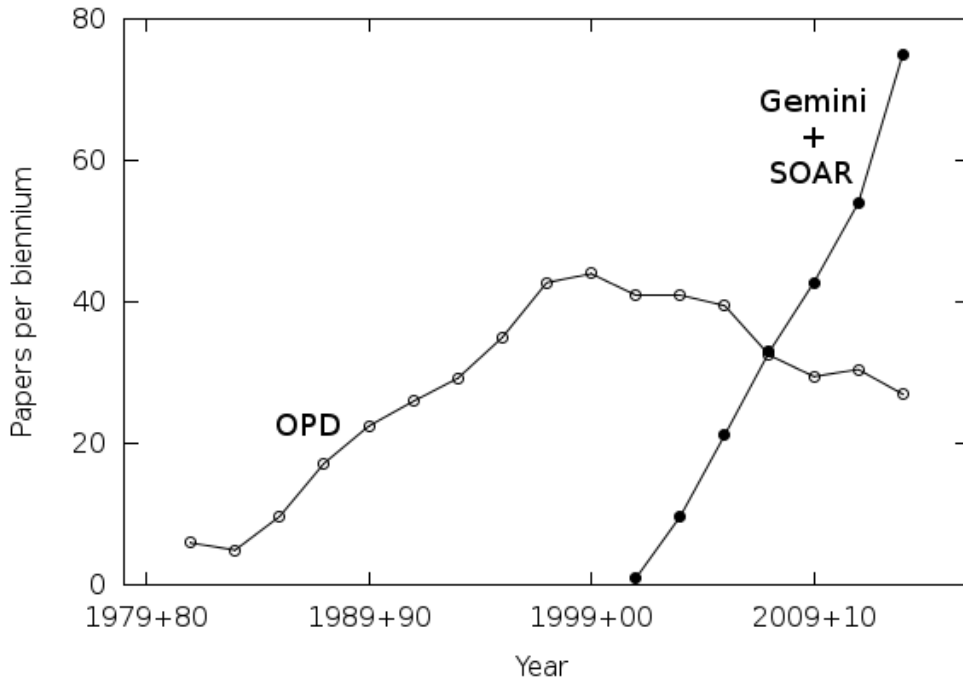


Figure 1. Number of papers per biennium published with data from the telescopes managed by LNA.

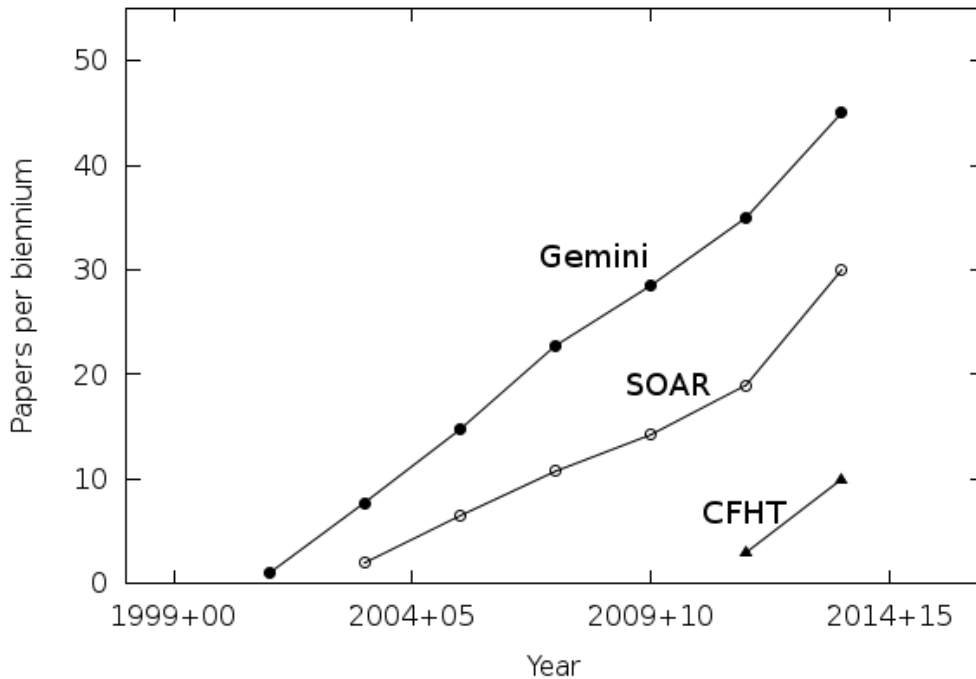


Figure 2. Number of papers per biennium published with data from the telescopes Gemini, SOAR and CFHT by the Brazilian community.

**Table B – Comparative table of brazilian authors vs total of Gemini.**

	<i>2001-10</i>	<i>11+12</i>	<i>13+14</i>	<i>15+16</i>
Nr <i>papers</i> total Gemini	824	354	426	395
Nr <i>papers</i> w/ brazilian auth.	75	31	44	41
Nr <i>papers</i> w/ 1 <sup>o</sup> aut. brazilian	60	24	30	24
% use of time by Brasil	2.3%	4.6%	5.5%	5.5%
% of <i>papers</i> w/ brazilian auth.	9.1%	8.8%	10.3%	10.4%
% of <i>papers</i> w/ 1 <sup>o</sup> auth. brazilian	7.3%	6.8%	7.0%	6.1%

In recent years, the papers published with Gemini + SOAR data presented a growth rate of 17% per year. This speaks by itself. At the same time Table B shows that the number of papers published by Brazilian astronomers is significantly higher than the average of the partnership. It is clear that the Gemini and SOAR telescopes are showing their scientific production at a progressive pace. The tendency seen in Figure 1 suggest that this will continue.

In recent years Brazilian astronomers have used 5.5% of the telescope time and published 12.1% of the papers. In 8.5% of the total papers published with Gemini data, 8.5% have Brazilians as first author.

*A list of all papers published between 2009 and 2016 by Brazilian authors using data from the SOAR and Gemini telescopes is given in Appendix C.*

#### *b) Graduate programs*

During the 4 years of 2005-08 the number of Master and PhD theses based on data from Gemini+SOAR telescopes was 15. During the 4 subsequent years, 2009-12 this number increased to 32. From 2007+08 to 2011+12 the growth rate was 15% per year. In the biennium of 2013+2014 the number increased to 26; again a significant increase when compared to the previous biennium, as shown in Table A. This shows that in this particular area of astronomy, the growth is quite significant. The contribution of the Gemini and SOAR telescopes is, perhaps, even more convincing here than in the scientific production, as shown in Figure 3.

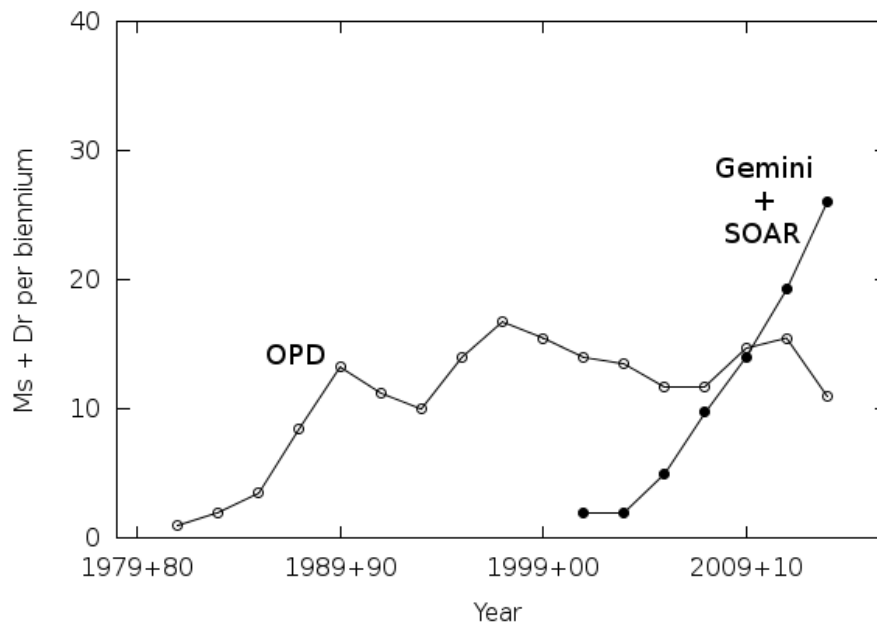


**Table C - Comparative table of Master and PhD theses, per biennium (2001-2016)**

	<i>Gemini</i>	<i>SOAR</i>	<i>CFHT</i>	<i>OPD</i>	<i>Total</i>
2015+16	15	9+1*	3	17	43+3**
2013+14	15	9+2*	5	11	35+2*+2**
2011+12	9	8+2*	2	17+1*	33+3*+3**
2009+10	5	6+2*	-	15	26+2*
2007+08	10	1	-	11	20+1**
2005+06	4	-	-	10	14
2003+04	1	-	-	16	17
2001+02	2	-	-	12	14
Up to 2000	-	-	-	94+3*	94+3*
Total	61	33+7*	10	203+4*	307+10*

Masters in instrumentation are with (\*).

Theses with data from more than one telescope are with (\*\*).



*Figure 3. The number of Ms and PhD theses containing data from telescopes managed by LNA.*

As can be seen in Table D, the number of Master and PhD theses is growing at an increasing pace (currently, about 13% for Masters and 6% for PDs).

*Table D*

	<i>Ms</i>	<i>Dr</i>
2005-2007	89	59
2008-2010	98 (3.3% p/year)	60 (0.6% p/year)
2011-2013	143 (13.4% p/year)	71 (5.8% p/year)

*A list of all Master and Doctorate degrees obtained in Brazil using data from the SOAR and Gemini Telescopes is given in Appendix D.*

*c) Supporting emerging groups*

During the 7 years of INCTA, a total of 21 lap-top and 15 desk-top computers were allocated to the emerging groups. In addition, 2 Virtual Observatory servers were also allocated.

The INCTA provided Astronomy books to 19 institutions with emerging groups.

A great effort in providing fellowships to emerging groups was also made. 49 IC, 7 Ms and 1 Dr fellowships were allocated to them. Perhaps as a consequence, the growth rate of Ms degrees has significantly improved in recent years.

*d) Stimulate the development of instrumentation for the Gemini and SOAR telescopes.*

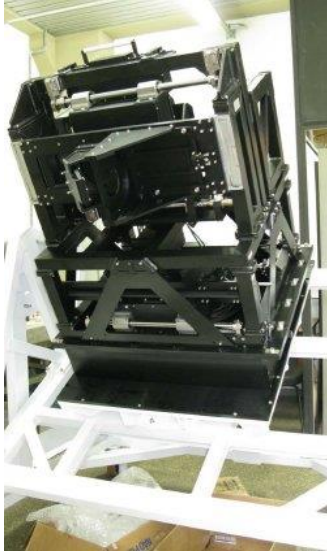
According to Table C, the first Master Theses in instrumentation for large telescopes started in the period 2009-2012, when a total of 4 theses were obtained.

At the same time, the number of instrumentation papers increased by a large factor, going from 3 in the period of 2005-08 to 13 in the four following years. This corresponds to an increase of 41% per year between 2007+08 and 2011+12.

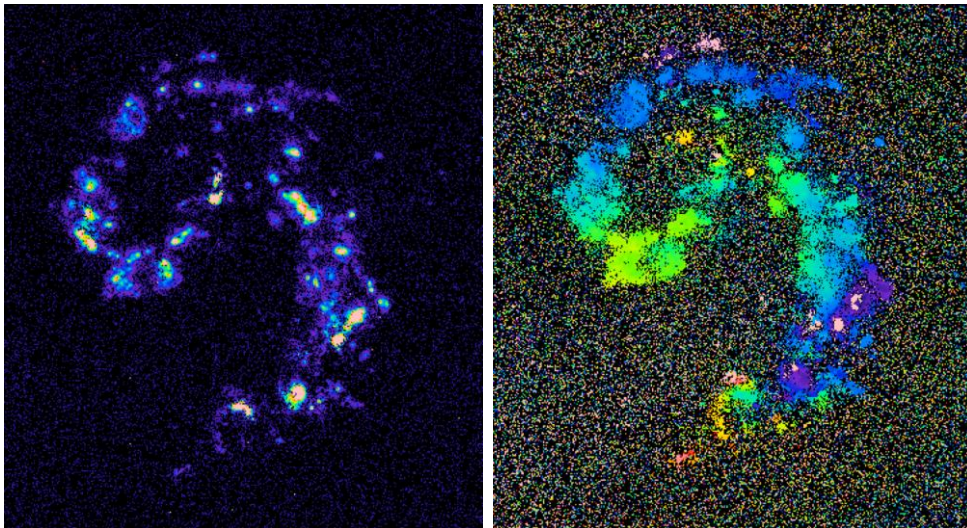
More importantly, the largest amount of money allocated by INCTA during the last 7 years was to the instrument BTFI (Brazilian Tunable Filter Imager). This instrument has commissioning on the SOAR telescope and its first images have been obtained (see below). The instrument SIFS (SOAR Integral Field Spectrograph) was also supported by the INCTA, but at a lower level, basically for transportation expenses and commissioning.

In recent years the efforts were concentrated in concluding the STELESM spectrograph. Its instrument is now mounted on the SOAR Telescope and is in the process of being commissioned. This is a high resolution echelle spectrograph.

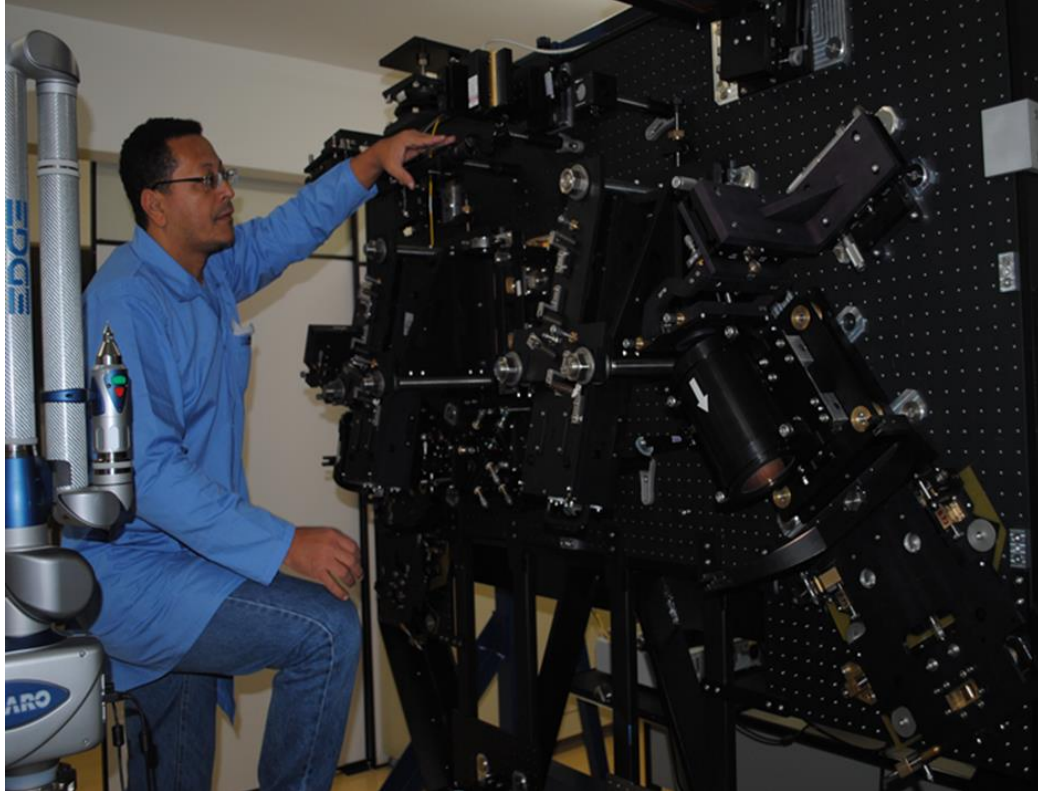
The number of Brazilian authors in instrumentation papers is 7 for the Gemini telescope and 43 for the SOAR telescope. This is quite impressive for an area that was much smaller previous to the SOAR telescope instrumentation program.



*Figure 4 - The BTFI*



*Figure 5 - Images of the the Antena Galaxy obtained with the Fabry-Perot with the SAM adaptive optics module.*



*Figure 6 – The STELES Spectrograph*



*Figure 7 – Developing the SIFS Spectrograph*



**Table E - Number of Brazilian authors (2001-2016)**

	<i>Gemini</i>	<i>SOAR</i>	<i>CFHT</i>
Nr of Brazilian authors in papers with data	136	119	26
Nr of Brazilian authors in instrum. papers	9	50	3

## 1.2 – Brazilian Astronomy in the era of the LSST and ELT projects.

In the year 2012 (April 1 to 4) an important workshop was held in Campos do Jordão:

### *Science with the LSST: a Brazilian/US Joint Workshop*

In this meeting both the Brazilian and the US side presented their perspectives and potential use and development for this telescope.

It is important to mention that FAPESP has joined the GMT Consortium as a founding member. It will hold 4% of the observing time.

## 1.3 – Virtual observatories.

a) The year of 2012 was very rich in activities regarding the BRAVO (Brazilian Virtual Observatory) initiative. The following activities and events were held:

- *Primeiro Workshop de e-Science na Astronomia Brasileira*  
09/03/12 – IAG-USP – S. Paulo – SP
- *Bravo Challenge*  
May/12 - October/12
- *Trilha de Astronomia na XXXII Reunião Anual da SBC +SAB*
  - \* *VO Day in SAB*
  - \* *Bravo VO School*
- *Interoperability Meeting to IVOA*  
(INCTA+Sociedade Brasileira de Computação)  
July/12 a October/12
- XXXII Congresso da Sociedade Brasileira de Computação – BRAVO  
Curitiba

b) Report of the BRAVO activities in the period 2014-2016

During this period, the first dedicated server for the BRAVO was acquired. A software infrastructure was installed with the goal of high offer of services. Currently the first services of *data publishing* in Brazil in conformity to the protocols of the *International Virtual Observatory Alliance* (IVOA; <http://www.ivoa.net>). We plan that this server will be the main data mirror for the S-Plus survey (<http://t80s.iag.usp.br>), by the storage of 32TB of raw data per year; this will also provide services for the user cases from the 2012 INCTA call.

#### Hardware

The *hardware* consists of two high performance storage servers according to the specification bellow:

-2 servers SGI C2112-GP2 of 2U each: 16 Cores Xeon E5-2630v3 2.4-GHz, 20MB cache, 8 GT/s; 128-GB DDR4 1866 MHz; 4 discs 1000-GB SATA2; RAID controller with 512MB of cache supporting RAID 0, 1, 5, 6 e 10 and BBU; 4 gates Gigabit Ethernet; 1 PCI with 2 gates 10GigE SFP+; redundant power supply.

-Storage SGI Infinite 5100 with: disks of 4Us with capacity for 60 HDs; Dual RAID controller with 4GB cache; 4 gates SAS 6 Gbit/s; 2 PCI with 2 gates SAS; 4 cables SAS 2m; redundant power supply.

-20 disks de 4000-GB SAS 7200 RPM, expandable to 180 HDs;

#### Software infrastructure

A *cloud computing* platform was installed for resource management: Open Nebula Sunstone 4.2.10. The *hypervisor* for virtualization is the KVM, and currently there are 2 virtual machines working. One of them hosts the service *gridftp*, protocol that will be used for the transfer of large amount of data. The second virtual machine hosts a server *OwnCloud* (<https://owncloud.org>), for fast data provision for external users.

The goal of the server will be used to host data for the Brazilian researchers thru the interoperability protocols defined by IVOA.

The largest of the services, in terms of amount of data, will be the survey S-Plus. For these services we will use the platform that is being developed in the Centro de Estudios de Física del Cosmos de Aragón (ceFca, Teruel, Espanha) for publishing the survey of J-Plus e J-PAS. As a general VO service platform, the system analyst Carlos Paladini of the Department of Astronomy is studying the toolkit OpenCADC, developed by the Canadian Astronomy Data Centre (CADC, <http://www.cadc-ccda.hia-ihh.nrc-cnrc.gc.ca/en/>). As soon an adequate knowledge of this tool is available, we intend to call interested users for testing the services. The first *cases* that will be assisted in this first step are:

-A Database for the SOUTH POL Survey (P.I.: Antônio Mário Magalhães (IAG/USP) co-Is: Edgar A. Ramirez (IAG/USP))

-Photometric Redshifts Portal (P.I.: Laerte Sodr e Jr. (IAG/USP) co-Is: Walter Santos (UCL, London), Alberto Krone- Martins (SIM/U. Lisboa, BRAVO))



-Grids of Synthetic Spectra (co-Is: Walter Junqueira Maciel, Graziela Roswhita Keller). This was recently submitted to FAPESP as 2 individual proposals (P.I. Paula Coelho e Raul Abramo), for funding 19 new discs of 4 TB for storage Infinite 5100, which will increase the storage capacity to 156 TB.

#### **1.4 – New projects of scientific equipment**

Two instruments were supported by INCTA to this point:

1 - The LLAMA radio dish that has the purpose to make interferometry with the ALMA interferometer. In funding stage by FAPESP.

2 – JPAS (Javalambra Physics of Accelerating Universe). This is meant to build and operate a 2.5 m telescope for Cosmology. It is a joint Brazil-Spain consortium to install the telescope in Spain.

3 – T-80 South. A 80 cm wide-field survey telescope installed and operational on CTIO.

4 – The GMT telescope also had some initial travel funding provided by the INCTA. Currently it is funded by FAPESP.

#### **1.5 – Education activities: EAD – Science teachers training program**

After 2 years of development, the first course for science teachers was held in 2011. The course lasted 18 weeks and the conclusion was that it should take longer. The number of teachers approved, per year since 2011 is given in Table F. The names of the approved teachers are given in Appendix B.

The course of Astronomy for Teaching – Solar System is targeted for the Fundamental level as well as for teachers with background in humanities. The second stage: Astrophysics is meant to High-School Teachers.

Each topic of the course is evaluated through programmed activities both by internet and by presence oral and written assessment.

The content of the courses are:

Solar System:

The dynamics Earth-Moon-Sun

Position Astronomy

Characteristics and methods of investigation of astronomical objects in the Solar System.

Astrophysics:

The dynamics Earth-Moon-Sun

Position Astronomy

Characteristics and methods of investigation of astronomical objects in the Solar System.

Stars and Stellar Evolution

Galaxies

Cosmology

Astrobiology

Table F – Astronomy for Teachig (CURSO DE ASTRONOMIA PARA DOCÊNCIA)

Year	Institution	Support	Aproved	Type
2011	EACH	INCTA	43	Aperfeiçoamento
2012	EACH	INCTA	46	Aperfeiçoamento
2013	EACH/IAG	INCTA	35	Aperfeiçoamento
2014	IAG/IF	INCTA/IAG	15 – Solar System 24- Astrophysics	Atualização Aperfeiçoamento
2015	IAG/IF	INCTA/IAG	16- Solar System 14- Astrophysics	Atualização Aperfeiçoamento
2016	IAG/IF	INCTA/IAG	12- Solar System 25 - Astrophysics	Atualização Aperfeiçoamento

(\*) From 2014 on, the course was done in two parts:

Solar System – 130 hours/ *Atualização*

Astrophysics – 240 hours / *Aperfeiçoamento*

## 2. General production of papers by INCTA members

The total number of papers published by the INCTA members in international refereed papers during the period 2009-16 was 1443. Of these papers, 86% were published in journals classified as Qualis A by CAPES. The number of papers published by journal per year is given in Appendix A. The list of papers published by Brazilian authors containing data from the SOAR and Gemini telescopes is given in Appendix C.

*Table G - Papers published in refereed journals by the researchers*

<i>Year</i>	<i>Total papers</i>	<i>Qualis A</i>	<i>Qualis B</i>	<i>Others</i>
2009	148	83%	11%	6%
2010	177	78%	12%	10%
2011	185	86%	5%	9%
2012	174	83%	2%	15%
2013	185	86%	6%	8%
2014	201	88%	4%	7%
2015	178	89%	3%	8%
2016	195	88%	6%	6%
<i>Total</i>	<i>1443</i>	<i>86%</i>	<i>6%</i>	<i>8%</i>

### 3. Investments made in the period 2009-2016

#### Acquisition of computer facilities for emerging groups (2009-2016):

- **21 Lap-top computers:**
  1. *Adriano Cerqueira Hoth (UESC)*
  2. *Alexandre Soares de Oliveira (UNIVAP)*
  3. *Ana Cristina Moreira Machado Zadra Armond – UFSJ*
  4. *Bernardo Borges – UFSC/Araranguá*
  5. *Caius Selhorst (UNICSUL)*
  6. *Carlos Dutra (UNIPAMPA)*
  7. *Cássio Barbosa (UNIVAP)*
  8. *Diana Pilling (UNIVAP)*
  9. *Eduardo Amores (UEFS)*
  10. *Fabício Ferrari (UNIPAMPA)*
  11. *Gabriel Hickel (UNIFEI)*
  12. *Hecktor Monteiro (UNIFEI)*
  13. *João Maria Silva (UFCG)*
  14. *João Vital da Cunha Junior - UFPA*
  15. *Kelly Torres Dozinél (UFSJ)*
  16. *Luciano Fraga - LNA*
  17. *Lucimara Martins (UNICSUL)*
  18. *Marcelo Guimarães (UFSJ)*
  19. *Nádja Magalhães (UNIFESP)*
  20. *Natalia Landin (UFSJ)*
  21. *Paulo Afrânio Lopes (OV-UFRJ)*
  22. *Rose Clívia Santos – UNIFESP*
  23. *Raimundo Lopes – UFS*
  24. *Roberto Saito (UFSC)*
  25. *Sergio Pilling (UNIVAP)*
  26. *Tatiana Laganá (UNCSUL)*
  27. *Tiago Ribeiro de Souza - UFS*
  28. *Wilton Dias (UNIFEI)*
  
- **14 Desk-Top computers:**
  1. *Alexandre Zabot (UFSC-Joinvile)*
  2. *André Ribeiro (UESC)*
  3. *Antonio Guimarães (UFRJ – Macaé)*
  4. *Cláudia Vilegas Rodrigues (INPE)*

5. *Diego Falceta-Gonçalves (USP-Leste)*
6. *Dinalva Sales (FURG)*
7. *Gabriel Hickel (UNIFEI)*
8. *Gustavo Lanfranchi (UNICSUL) x2*
9. *Gustavo Rojas (UFSCar)*
10. *Henry Plana (UESC)*
11. *Ilya Shapiro (UFJF)*
12. *Irapuan Rodrigues (UNIVAP)*
13. *Ivan Soares (UNB)*
14. *Rogemar Riffel (UFSM)*
15. *Rodrigo Fernandes de Lira Holanda (UEPB x2)*
16. *Sergio Scarano Junior (UFS)*
17. *Tiago Ricci (UFFS – Cerro Largo)*
18. *Valério Carruba (UNESP- Guaratinguetá)*

#### ***Videocon equipment***

Sílvia Lorenz (UFRJ)  
Sergio Scarano Junior- UFS  
SOAR remote observing room (IAG)

#### **Virtual Observatory servers:**

Paula Coelho (UNICSUL)  
Roberto Cid Fernandes (UFSC)

#### ***SOAR remote observing stations***

Raimundo Lopes (UFS)  
Alexandre S. de Oliveira (UNIVAP)  
Leandro Kerber (UESC)

#### ***No-breaks:***

1. No-break for the IAG cluster Alfa Crucis
2. No-break for EaD

#### ***Astronomical data reduction and analysis office***

Alexandre S. de Oliveira (UNIVAP) 6 desktops  
Thiago Gonçalves & Karin Menedes Delmestre (UFRJ-OV)  
Irandirli Fernandes (UEFS)

#### ***Teaching equipment***

Carlos Dutra – UNIPAMPA:  
01 Newtonian telescope  
20 binocules 10x50

Antonio Kanaan Neto – UFSC:  
Optical light modulator

#### **Acquisition of Astronomy books for emerging groups**

1. 2x UESC
2. FURG
3. UEFS
4. UFABC
5. UFCG
6. UFFS – Cerro Largo RS
7. UFRJ - Observatório Valongo
8. UFRJ - Macaé
9. UFS
10. UFSC
11. UFSC - Joinville
12. UFSJ
13. UFSM
14. UFV
15. UNICSUL 2x
16. UNIFEI
17. UNIFESP
18. UNIPAMPA
19. UNIVAP 2x
20. UNIVASF

### **Acquisition of computer facilities for community use**

#### *High Performance GPU processor*

Alex Carciofi (IAG-USP)

This equipment, running at 2.3 teraflops, has been installed at IAG-USP for community use.

#### *Desk-top computer were allocated to people working for the INCT-A*

Carlos Paladini (IAG-USP)

Anne Louise Scarinci (IAG-USP)

Maria Teresa Lopes (IAG-USP)

*The super cluster Alfa Crucis installed at IAG-USP was opened to all INCTA members with the investment made by INCTA.*

### **Laboratory equipment**

#### *Capela de fluxo laminar*

Daniela Lazzaro (ON)

### **International Travel (2009-2011)**

- Visit to ALMA (Chile)
- Visit to TMT and GMT (Pasadena CA-USA)
- PFS (Los Angeles – USA)
- J-PAS (Terruel - Spain)



- SPIE Astronomical Telescopes and Instrumentation (San Diego-USA)
- Asymmetric Planetary Nebulae V (UK)-Denise Gonçalves
- Virtual Observatory (Munich - Germany)
- Virtual Observatory (Victoria - Canada)
- Gemini users training (Tucson – USA)
- Visit to SPARTAN (Chile)
- Observation mission to IRTF (Hawaii)
- Virtual observatory (Naples - Italy)
- Workshop Astro-informatics 2011 - Sorrente, Itália
- Visit to the Open University (EaD) Milton Keynes, England
- Meeting with LSST – Tucson AZ USA
- Meeting with CFHT – Hawai USA
- J-PAS meeting – Terruel, Spain
- 15 trips to La Serena for the Commissioning of the SOAR instruments SIFS and BTFI

### **International Travel (2012)**

*BTFI Commissioning - TOTAL: 14 trips*

Jan: Henri Plana, Fabricio Ferrari e Renato Severo

May: Denis Andrade

July: Alvaro, Denis Andrade, Bruno Quint, Claudia Oliveira e Keith Taylor

Sept: Denis Andrade

Nov: Denis Andrade, Álvaro Calasans e Claudia Oliveira

Jan/2013: Bruno Quint

*SIFS Commissioning – TOTAL: 6 trips*

May: Orlando Verducci e Flavio Ribeiro (La Serena)

Jul: Orlando Verducci (La Serena)

Jan/2013: Rodrigo Vilaça, Lígia Oliveira e João Batista Oliveira (training in the USA)

*BraVO*

May: Alex Carciofi e Paula Coelho (IVOA interoperability meeting 2012, University of Illinois)

*Other trips:*

Feb: André Amorim, Antonio Kanaan, Fabricio Ferrari e Henrique Xavier – (J-PAS meeting in Madrid)

May: Vinicius Placco (Colaboration with Profa. Anna Frebel at MIT (Massachusetts Institute of Technology))

June: Anne Scarinci (participation in The World Conference on Physics Education, Istanbul)

July: Denise Gonçalves, Eduardo Telles, Rogemar Riffel, Rogerio Riffel, Astor Schonell e Marlon Diniz (participation in the Gemini Science Meeting, San Francisco)

Aug: Bruno Castilho (The 2012 LSST All Hands Meeting, Tucson)

Dec: Marcos Lima – (Dark Energy Survey (DES), Texas A&M University)

## International travel (2013-2014)

- Bruno Vaz Castilho de Souza

Period: 25 to 31/03/2013

Participation in the workshop "The Next Generation of the CFHT: A wide field spectroscopic facility for the coming decade"

- Henri Michel Pierre Plana

Period: 10 to 18/ 05 / 2013

Science with SITELLE, Quebec / Canadá

- Lucimara Pires Martins

Period: 19 to 27/05/13

Observations at the Telescope APO - Procurando pelas estrelas pós-AGB ionizantes - Apache Point Telescope, New Mexico, EUA

- Karín Delmestre

Period: 10 to 14/06/2013

"A Panchromatic View of Galaxy Evolution 30 Years after the Infrared Astronomical Satellite (IRAS)", Paphos, Cyprus.

- Raimundo Lopes de Oliveira Filho

Period: 15 to 20/06/2014

The X-ray Universe 2014, Dublin, Irlanda

- Training at the Gemini e SOAR Telescopes

Period: 18 to 26/09/2013

Camila Maria Sitko Meira dos Santos

Ingrid Domingos Pelisoli

Henrique Marques Reggiani

André Sampaio

- Marcelo Medeiros Guimarães

Period: 24/12/2013 to 04/01/2014

Observations with the SOAR telescope

- Hugo Vicente Capelato

Period: 11 to 18/01/2014

"The evolution of galaxy clusters and cluster galaxies in the epoch of large optical/IR surveys" - Sexten/Itália

- Paula Rodrigues Teixeira Coelho

Period: 03 to 10/10/2014

Collaboration with Dr. Stephane Charlot from Institut d'Astrophysique de Paris (partial support)

- Paula Rodrigues Teixeira Coelho

Period: 17 to 21/11/2014

“Third Workshop on Numerical and Observational Astrophysics: Linking the Local Universe to the Early One”, Buenos Aires

- Alex Cavalieri Carciofi

Period: 30/11 to 05/12/2014

IAU Symposium 305 Polarimetry: From the Sun to Stars and Stellar Environments”, Costa Rica

Foreign visitors:

- Christine Jones Forman (Harvard-Smithsonian Center for Astrophysics)

Period: 27/08 to 06/09/2014

Colaboration between UFRJ and Harvard-Smithsonian Center for Astrophysics, Talks at UFRJ and XXXVIII Reunião anual da SAB

- Roland Christian Francis Triay (Aix Marseille Université)

Period: 17 to 22 / 02 / 2013

Verão Quântico 2013

- Charles David Fisher (California Institute of Technology)

- David Frederick Braun (California Institute of Technology)

Period: 11 to 17/ 08 / 2013

Treining in electronics and precision micromechanics for the Laboratório Nacional de Astrofísica - California Institute of Technology

Trips for the following instruments:

SIFS

Chicago: 04

La Serena: 3

Montréal: 3

BTFI: 19 (La Serena)

GMTO: 04 (Pasadena and Texas)

BRAVO: 04

JPAS: 04 (Spain)

### **International travel - 2015**

GMT meeting in Boston/USA – GCLEF - 20/2/2015

Bruno Castilho, Keith Taylor, Claudia Mendes de Oliveira and Fernando Santoro

Trips for the following instruments:

BTFI: La Serena 6

SIFS: La Serena 1

GMT Board Meeting 02-05/02/2015  
J. Steiner – Sydney Australia

### **International travel – 2016**

Trips for the following instruments

STELES: La Serena – 10

SIFS: La Serena – 1

BTFI: La Serena 1

G-CLEF: Boston 1 (Alexandre Mello)

Observations at Blanco Telescope  
Natacha Dametto  
Luis Gabriel Hahn

### **Support to Instrumentation (2009-2016)**

- SIFS – SOAR Integral Field Spectrograph
- BTFI –Brazilian Tunable Filter Interferometer
- STELES – SOAR Telescope Echelle Spectrograph
- LLAMA- Latin-American Astronomical Millimetric Array
- JPAS –Javalambra Physics of the Accelerating Universe
- SPARC4 - A simultaneous polarimeter and rapid camera in 4 bands

## **SCIENTIFIC EVENTS**

### **Events held in 2009**

*Space Astronomy in Brazil*

IAG-USP, held in September 2009

INCT-A + INCT INESPAÇO

### **Events held in 2010**

*Instrumentation*

USP-São Carlos, School on Instrumentation for Astronomy and Organic  
Electronics held in September 2010.

INCT-A + INCT Organic Electronics

*The ASTER project*

Sao Jose dos Campos, 27/10/2010

## Events held in 2011

INPE+INCT-A

*Verão Quântico 2011*

Anchieta ES 20 a 25/2/2011

CAPES+CNPq+INCTA

*First International Symposium on Science with the SOAR Telescope*

Maresias, SP – 13-19/05/11

INCTA+LNA

*I Workshop de Computação Científica em Astronomia*

UNICSUL 02-05/06/11

INCTA

*Workshop LLAMA*

FAPESP – 8 e 9/08/11

INCTA

*South American Gemini Data Workshop*

S. Jose dos Campos, 27-30/10/2011

## Events held in 2012

*Primeiro Workshop de e-Science na Astronomia Brasileira*

09/03/12 – IAG-USP – S. Paulo - SP

INCTA

*Science with the LSST: a Brazilian/US Joint Workshop*

Campos do Jordão 01 a 04/04/2012

INCTA+LNA

*Bravo Challenge*

May/12 - October/12

INCTA

*Trilha de Astronomia na XXXII Reunião Anual da SBC +SAB*

\* *VO Day in SAB*

\* *Bravo VO School*

*\* Interoperability Meeting to IVOA*  
(INCTA+Sociedade Brasileira de Computação)  
July/12 a October/12

*Reunião do J-PAS*  
São Paulo

*XV Curso de introdução à Astronomia e Astrofísica*  
INPE

*XXXII Congresso da Sociedade Brasileira de Computação – BRAVO*  
Curitiba

*III International Conference on Quantum Theories and Renormalization Group in  
Gravity and Cosmology*  
Grupos Emergentes (UFJF)

*Conference: Galactic Nuclei and Their Connection With Stars and the  
Environment*  
UFRGS – Gramado

### **Events held in 2013**

- 17 a 22/02/2013

*5º Verão Quântico*  
Anchieta / ES

- 26 a 28/04/2013

*Treinamento para observações remotas no Telescópio SOAR*  
São José dos Campos / SP

- 27 a 28/05/2013

*BTFI meeting*  
São Paulo

- 15 a 19/07/2013

*XVI Curso de introdução à Astronomia e Astrofísica*  
São José dos Campos / SP

- 13 a 14/11/2013

*GMT Science Workshop*  
São Paulo

- 25 a 30/11/2013

*XIV Latin American Regional IAU Meeting*  
Florianópolis / SC



## Events held in 2014

- 03 a 06/06/2014

*II Workshop de Computação Científica em Astronomia*  
São Paulo / SP

- 30/06 a 04/07/2014

*XVII Curso de introdução à Astronomia e Astrofísica*  
São José dos Campos / SP

- 07 a 09/08/2014

*Rompendo a barreira do desconhecido – Como aproveitar os novos instrumentos do Gemini e do SOAR*  
Guarujá / SP

## Events held in 2015

*J-PAS meeting*

Paraty 23-24/2/2015

Coordinators: Raul Abramo and Eduardo Cypriano

*XVIII Curso de introdução à Astronomia e Astrofísica*

Local: São José dos Campos / SP

20-25/07/2015

Coordinator: Claudia Villegas

*The T80 Telescope*

IAG-USP

27/28-8-2015

Coordinator: Claudia Mendes de Oliveira

*Stellar Population Newton Meeting*

IAG-USP

29-30/11/2015

Coordinator: Beatriz Barbuy

*XVII Advanced School in Astrophysics*

Local: Campos do Jordão

22-26/11/2015

Coordinator: Joao Steiner

## Events held in 2016

*"VIII Taller de Ciências Planetárias - VIII Reunião de trabalho sobre ciências planetárias"*

Local: CREF-IF, UFRGS, Porto Alegre, RS

Período de 22 a 25/02/16  
Coordinator: Daniela Lazzaro

### FELLOWSHIPS ALLOCATED BY THE INCT-A

Categoria Iniciação Científica			
Bolsistas (Ordem alfabética)	Instituição	Título do trabalho	Vigência
Adam Smith Gontijo Brito de Assis (Orientador: Ivan Soares Ferreira)	UNB	Análise estatística de catálogos de galáxias	01/09/2010 a 31/08/2012
Agatha Harumi Alves da Costa (Orientadora: Rose Clivia Santos)	UNIFESP	Teste da Idade do Universo	01/04/2011 a 29/02/2012
Alexandre Campos Vergueiro Monteiro de Almeida (Orientador: Caius Selhorst)	UNIVAP	Estudo das variações do raio solar em 17 e 34 GHz	01/05/2012 a 30/04/2014
Aline Tendolini (Orientadora: Adriana Valio)	Mackenzie	Determinação da Opacidade Atmosférica em 45 Ghz E 90 Ghz No Casleo	01/08/2014 a 31/12/2014
Anderson Seiji Okada (Orientadora: Nadja Magalhães)	UNIFESP	Astrofísica De Pulsares: O Problema Do Decaimento Do Período Orbital	01/09/2010 a 31/08/2011
Andrea Elisabete de Paula (Orientador: Odilon Giovannini)	UCS	Observatório Astronômico Itinerante (OAI)	01/10/2012 a 30/09/2013
Andressa Rossini Goulart (Orientador: Carlos Dutra)	UNIPAMPA	Dialmaker: um aplicativo gratuito para construir um relógio de sol."	01/07/2013 a 30/06/2014
Ariana Franca Clavia (Orientador: Luiz Paulo Vaz)	UFMG	Aglomerados binários da pequena nuvem de Magalhães	01/05/2012 a 31/12/2012
Arthur Eduardo da Mota Loureiro (Orientador: Horacio Dottori)	UFRGS	Simulações Computacionais de N-Corpos para Sistemas com Buracos Negros	01/04/2011 a 31/10/2011
Caio Cezar Gomes Laranjo (Orientador: Alexandre Oliveira)	UNIVAP	Variações cíclicas nos períodos orbitais de estrelas variáveis cataclísmicas	01/10/2012 a 30/09/2013
Caio Rodrigues dos Santos (Orientador: Valerio Carruba)	UNESP	Dynamical evolution and chronology of the Hygiea asteroid family	01/05/2013 A 30/04/2014
Calliu Ícaro da Silva Soares Rosa (Orientador: Militão Vieira Figueredo)	UNIVASF	Detalhamento mecânico do heliostato e dimensionamento dos sistemas sem fim e coroa	01/04/2011 a 31/03/2012
Carolynne Santos de Oliveira (Orientadora: Karin Delmestre)	Observatório do Valongo	Galáxias luminosas no Ultravioleta: representantes de população no alto redshift	01/05/2012 a 30/04/2013
Cilon Viana Leão (Orientadora: Daniela Pavani)	UFRGS	Aglomerados estelares Galácticos no infravermelho-próximo: contribuição para síntese de população estelar e calibração de modelos evolutivos	01/10/2012 a 30/06/2013

Dalton Dias Meira (Orientador: Francisco Carlos Rocha Fernandes)	UNIVAP	Análise De Dados De Rádio-Emissões Solares Aplicando Técnicas De "Wavelet"	01/08/2011 a 30/09/2011
Davi Rohe Salomon da Rosa Rodrigues (Orientador: Daniel Müller)	UNB	Termodinâmica de Buracos Negros	01/11/2009 a 31/07/2010
Dino Beghetto Junior (Orientador: Irapuan Rodrigues Oliveira Filho)	UNIVAP	Dinâmica de galáxias:simulações numéricas de N-Corpos	01/09/2010 a 30/11/2010
Eduardo Lourenço Andrade (Orientador: Raymundo Baptista)	UFSC	Espectroscopia de uma erupção da nova anã V2051 OPHIUCHI: Analisando A Linha Espectral H $\beta$ Resolvida Em Velocidade $ V  = 400-1000$ Km/S	01/08/2012 a 31/07/2013
Eduardo Luann Wojcikiewicz Duarte Silva (Orientador: Raymundo Baptista)	UFSC	A distância até V2051Ophiuchi: testando os modelos para erupção em novas anãs	01/05/2013 a 30/04/2014
Elizabete Guitzel (Orientadora: Nadja Magalhães)	UNIFESP	Estudo Da Modelagem De Curvas De Rotação De Galáxias	01/08/2011 a 31/07/2012
Elvis William Carvalho Cantelli (Orientadora: Beatriz Barbuy)	IAG	Espectroscopia De Alta Resolução De Estrelas Pobres Em Metais: Ngc 6522 – Aglomerado Globular Pobre Em Metais Do Bojo Galáctico	01/08/2012 a 31/07/2013
Fabiana Lima Costa (Orientador: Gabriel Hinkel)	UNIFEI	Procura por Estrelas Variáveis nos Aglomerados Estelares Abertos NGC6216 e NGC6583	01/06/2014 a 31/05/2015
Fabio Pinto Rodrigues (Orientador: Alberto Ardila)	LNA	As Linhas Coronais Como Suporte Observacional De Processos De Feedback Em Agns	01/09/2012 a 31/08/2013
Felipe de Paula Lima (Orientador: Ivan Soares Ferreira)	UNB	Análise estatística de catálogos de galáxias	01/09/2010 a 31/08/2011
Felix Silva de Lima (Orientador: Rodrigo Holanda)	UEPB	Previsões sobre limites na validade da relação de dualidade cósmica usando simulações Monte Carlo	01/06/2015 a 31/05/2015
Filipe Fontanela (Orientador: Raymundo Baptista)	UFSC	Aquarii em um estado anômalo de brilho Espectrofotometria GOODMAN/SOAR de UU	01/08/2011 a 31/12/2011
Francisco Elânio Bezerra (Orientador: Gustavo Lanfranchi)	UNICSUL	Formação e evolução de galáxias :as galáxias irregulares anãs Sextan A e Sextan B	01/09/2010 a 31/08/2011
Frederico Guilherme de Oliveira (Orientador: Sergio Pilling)	UNIVAP	A Química do Fósforo Interestelar	01/05/2012 a 30/11/2012
Frederico Vilela de Lima (Orientador: Anderson Caproni)	UNICSUL	Estudo Da Cinemática Do Jato Do Quasar 3c 345 Em Escala De Parsec	01/09/2010 a 31/08/2011
Gabriel Martins Palma Perez (Orientador: Jorge Melendez)	IAG	Potencializando O Uso Do Steles No Soar: Lista De Estrelas Candidatas Para Estudos De Exoplanetas, Evolução Estelar, Estrutura Galáctica, Populações Estelares E Cosmologia	01/05/2012 a 30/04/2013

Gabriela Augusta Prando (Orientador: Gustavo Rojas)	UFSCAR	Parâmetros estelares de estrelas com exoplanetas	01/04/2011 a 28/02/2013
Giovane Galdino da Silva (Orientador: Caius Selhorst)	UNIVAP	Análise observacional das mudanças nos campos magnéticos de regiões ativas	01/10/2012 a 30/09/2013
Graciana Brum João (Orientador: Fabricio Ferrari)	FURG	Dinâmica de Galáxias: Sistemas Estelares Esferoidais	01/04/2011 a 31/03/2012
Guilherme Muller Peccini (Orientador: Horacio Dottori)	UFRGS	Estudo Da Região Central De Ngc 5128: Análise De Observações Espectroscópicas Realizadas Com Flamingo 2 Na Banda K	01/06/2012 a 31/05/2013
Helder José Farias Lima (Orientador: Alexandre Soares de Oliveira)	UNIVAP	Estudo Fotométrico de Candidatas a Progenitoras de Supernovas do Tipo IA	01/05/2010 a 31/07/2010
Isabel de Jesus Lima (Orientador: Eduardo Amores)	UEFS	Identificação de galáxias no grande levantamento VVV	01/05/2013 A 30/04/2014
Jamille Almeida Feitosa (Orientadora: Maria Jaqueline Vasconcelos )	UESC	Análise Espectroscópica Do Jato Hh111 A Partir De Dados Gmos-lfu	01/10/2009 a 31/07/2012
Jessica Caroline dos Santos Simplicio (Orientador: Jorge Melendez)	IAG/USP	Rotação, Atividade Estelar E A Procura De Outras Terras	01/11/2012 a 31/10/2013
João Vitor Frossard (Orientador: Ilya Shapiro)	UFJF	Estudo Do Formalismo Tensorial Para Aplicações Em Física Teórica	01/08/2012 a 31/07/2013
José Declerk Buaca Sinadinse (Orientador: Francisco Fernandes)	UNIVAP	Identificação, Catalogação E Análise Preliminar De Dados De Rádio-Emissões Solares Em Ondas Métricas Registradas Pelo Callisto-Br	01/05/2012 a 30/04/2013
Leonardo Augusto Gonçalves dos Santos (Hektor Monteiro)	UNIFEI	Determinação De Características De Estrelas Progenitoras De Nebulosas Planetárias Com Modelos De Evolução Estelar: O Caso De Ngc 40	01/10/2012 A 31/07/2013
Leonardo de Albernaz Ferreira (Fabricio Ferrari)	FURG	Estabilidade das medições de parâmetros morfológicos com o Redshift	01/10/2012 a 30/09/2013
Levy Scalise Maciel (Orientadora: Tatiana Michtchenko)	IAG	Uso do Mathematica no estudo de dinâmica planetária	01/05/2012 a 30/04/2013
Luana Souza Borges (Orientador: Sergio Pilling)	UNIVAP	Processamento por radiação VUV e raios-X de gelos astrofísicos contendo ácido fórmico: relevância para nuvens moleculares	01/09/2014 a 30/04/2015
Lucas Gustavo Gonçalves Pimenta (Orientador: Eduardo Cypriano)	IAG	Deteção de Estruturas em Dados Fotométricos de Galáxias	01/02/2013 a 31/01/2014
Luenne Nailam Sousa Nascimento (Orientador: André Ribeiro)	UESC	Um Módulo Para Monitoramento De Extinção Atmosférica Usando Chimera	01/05/2012 a 30/04/2013
Luis Fernando Basso (Orientador: Odilon Giovannini)	UCS	Observatório Astronômico Itinerante (OAI)	01/06/2012 a 31/08/2012
Luiz Filipe Hermes Calvi (Orientador: Antonio Guimarães)	UFRJ-Macaé	Imageamento e Análise de Mapas Bidimensionais	01/08/2012 a 31/07/2013

Marcos Felipe Faria Terra Siqueira (Orientador: Gabriel Hickel)	UNIFEI	Fotometria de exoplanetas tipo hot-Jupiters em sistemas planetários com trânsito	01/05/2013 a 30/04/2014
Marcus Vinicius Araujo Moreno (Orientador: Antonio Guimarães)	UFRJ-Macaé	Simulação de Dados de Supernovas tipo Ia	01/08/2012 a 31/07/2013
Mariana Arantes Mazzi (Orientador: Augusto Damini)	IAG	Distâncias de aglomerados galácticos massivos através de binárias eclipsantes	01/05/2012 a 30/04/2013
Natasha Fioretto Agüero (Orientadora: Tatiana Michtchenko)	IAG	Sistemas Planetários Extra-Solares: métodos de detecção e dinâmica	01/05/2013 A 30/04/2014
Nyergirton Barreiros dos Santos Costa (Orientador: Militão Figueredo)	UNIVASF	Controle de um heliostato através de microcontrolador	01/05/2012 a 30/04/2013
Otávio Migliavacca Madalosso (Orientador: Haroldo Campos)	INPE	Algoritmo Fof (Friends-Of-Friends) Para Classificação De Objetos Astronômicos Versão $N \cdot \log(N)$ , Com Implementação Em Openmp E Openacc	01/05/2012 a 30/04/2014
Pablo Chagas Oliveira (Orientadora: Thaisa Bergmann)	UFRGS	População Estelar no Disco Nuclear de Galáxias não Ativas	01/05/2012 a 30/04/2013
Pedro Antonio Batista Brito (Orientador: Henri Plana)	UESC	Taxa de Formação Estelar em Grupos Compactos de Hickson	01/08/2013 A 30/06/2014
Pedro Papini de Araujo (Orientador: Eduardo Bica)	UFRGS	Determinação da Natureza de Possíveis Aglomerados de Estrelas Jovens	01/05/2013 A 30/04/2014
Pietro Soares Ramalho (Orientadora: Rose Clivia Santos)	UNIFESP	Energia Escura, Diâmetro Angular e Distância de Dyer-Roeder	01/05/2013 A 30/04/2014
Rafael Luiz Bernardi (Abílio Mateus Junior)	UFSC	Leis De Extinção Interestelar E A Análise De Resultados Do Starlight	01/08/2011 a 31/12/2011
Rafael Pantaleão Moreira (Orientador: Oli Luiz Dors Junior)	UNIVAP	Influência de Parâmetros Nebulares e Estelares sobre Estimativas de Taxa de Formação Estelar	01/04/2011 a 30/04/2013
Raianni Oliveira Fernandes (Orientadora: Diana Oliveira)	UNIVAP	Metanol no Sistema Solar e no meio interestelar	01/01/2013 a 31/12/2013
Renato da Silva Severo (Orientador: Fabricio Ferrari)	UNIPAMPA	Visualizador de Cubo de Dados: lionFits	01/10/2009 a 30/09/2010
Renato Mello da Silva Farias (Orientador: Wagner Marcolino)	Observatório do Valongo	Ventos Estelares	01/05/2012 a 31/05/2013
Rodrigo Voivodic (Orientador: Laerte Sodré)	IAG	A função de massa dos aglomerados de galáxias	01/05/2012 a 30/04/2013
Sarah Leticia Veneziani Kamezawa (Orientador: Francisco Fernandes)	UNIVAP	Determinação Das Características Espectrotemporais De Radioemissões Solares Métricas Tipo Iii E Sua Associação Com Flares Em Raios-X	01/11/2012 a 30/04/2013
Sergio Henrique Mateus Douwens dos Santos (Orientador: Valerio Carruba)	UNESP	Mobilidade asteroidal induzida por encontros próximos com asteroides massivos	01/08/2011 a 31/08/2012
Simpliciano Castardelli dos Reis (Orientador: Ilya Shapiro)	UFJF	Um Estudo do Tensor de Curvatura no Âmbito da Relatividade Geral e as Equações de Einstein e suas Consequências	01/08/2012 a 31/07/2012



Thais de Oliveira da Conceição (Orientador: Oli Dors)	UNIVAP	Abundância química em anéis de formação estelar circumnucleares	01/05/2012 a 30/04/2014
Thiago Marcel de Almeida Santana (Orientador: Iranderly Fernandes)	UEFS	Estudo Espectroscópico de Galáxias Wolf-Rayet Empregando Ferramentas do Observatório Virtual	01/04/2011 a 31/03/2012
Wagner Schlindwein (Orientador: Raymundo Baptista)	UFSC	Mapeamento de Flickering e Superhump da binária eclipsante de menor período SDSS J0926+36	01/05/2012 a 31/05/2013
Walter Silva Martins Filho (Orientador: Thais Mothé Diniz)	Observatório do Valongo	Efeito Yarkovsky aplicado em famílias de ateróides diferenciados	01/09/2010 a 31/07/2012

### List of IC fellowships from january nto september 2016.

- Ana Carolina Albernaz Sirico, orientadora: Tatiana Michtchenko (IAG/USP)
- André de Almeida Schutzer, orientadora: Zulema Abraham (IAG/USP)
- Artur Correia Alegre, orientador: Alex Carciofi (IAG/USP)
- Catarina Pasta Aydar, orientador: João Evangelista Steiner (IAG/USP)
- Diêgo Oliveira dos Santos, orientador: Iranderly Fernandes de Fernandes (UEFS)
- Felipe Augusto Bianchi Bueno, orientador: Horácio Dottori (UFRGS)
- Mirela Rodolfo da Fonseca Pinto, orientador: Antonio Guimarães (UFRJ – Macaé)
- Raphael Augusto Pereira de Oliveira, orientador: Eduardo Bica (UFRGS)
- Stela Ishitani Silva, orientador: João Francisco C. Santos Junior (UFMG)

Categoria Pós-Doutorado Junior				
	Bolsistas (Ordem alfabética)	Instituição	Projeto	Vigência
1	Allan Schnorr Muller (Pesquisador responsável: Thaisa S. Bergmann)	UFRGS	Compreendendo a alimentação do buraco negro supermassivo: cinemática estelar e do gás no kiloparsec central de galáxias ativas	01/07/2013 a 31/07/2013
2	Anne Louise Scarinci Brandao (Pesquisador responsável: Diego Falceta Gonçalves)	IAG	O ensino e a aprendizagem em um curso de astronomia para docentes a distância	01/09/2010 a 31/07/2012
3	Cintia Quireza Campos (Pesquisador responsável: Denise Rocha Gonçalves)	OV	Nebulosas planetárias Espacialmente resolvidas e seu papel na Evolução de galáxias próximas	01/11/2009 a 31/10/2011
4	Daniela Borges Pavani (Pesquisador responsável: Eduardo Bica)	UFRGS	Estudo de Aglomerados Abertos Galácticos com do 2MASS: 1. Análise de Aglomerados Abertos Remanescentes 2. Obtenção de parâmetros físicos para aglomerados abertos por modelamento de cmds	01/10/2009 a 31/08/2010



5	Denilso da Silva Camargo (Pesquisador responsável: Charles Bonatto)	UFRGS	Aspectos da evolução de aglomerados estelares	01/05/2012 a 28/02/2013
6	Dinah Moreira Allen (Pesquisador responsável: Diego Gonçalves)	EACH	Avaliação do aprendizado em um curso de Aperfeiçoamento em astronomia para docentes Do ensino básico	01/03/2012 a 28/02/2013
7	Fabiola Campos (Orientador: Kepler Oliveira Filho)	UFRGS	Parâmetros astrofísicos de Aglomerados Globulares	01/08/2013 a 31/10/2013
8	Francisco Ferreira de Souza Maia (Pesquisador responsável: João Francisco C. Santos Jr.	UFMG	Parâmetros astrofísicos de aglomerados das Nuvens de Magalhães: buscando uma melhor compreensão da estrutura e evolução destas galáxias	01/04/2012 a 31/03/2012
9	Irandery Fernandes de Fernandes	LNA	Projeto SOAR-VO	01/08/2009 a 30/06/2010
10	Marcos Vinicius Borges Teixeira Lima (Pesquisador responsável: Laerte Sodré)	IAG	Teorias De Gravidade Modificada E Aplicações De Lentes Gravitacionais	01/09/2010 a 30/09/2010
11	Marina Trevisan (Pesquisador responsável: Reinaldo R.R. Carvalho)	INPE	Bárions em halos de matéria escura: conteúdo e história de formação estelar de galáxias elípticas	01/04/2012 a 31/07/2012
12	Natalia Vale Asari (Pesquisador responsável: Roberto Cid Fernandes Junior)	UFSC	O Novo Observatório Virtual do Starlight: Preparação para uma nova era de dados	01/05/2010 a 30/01/2011
13	Paulo Fernando Penteadó (Pesquisador responsável: Claudia Mendes de Oliveira)	IAG	Processamento, catalogação e mineração de imagens astronômicas	01/11/2011 a 30/04/2012
14	Sandro Barbosa Rembold	UFSM	Propriedades Cinemáticas De Galáxias A Alto Redshift Via Espectroscopia Integrada	01/09/2012 a 31/10/12
15	Thiago Signorini Gonçalves (Pesquisador responsável: Paulo Afranio Lopes)	Observatório do Valongo	A formação de galáxias starburst: histórico dos últimos 10 bilhões de anos	01/10/2011 a 30/11/2011
16	Tiago Abreu Saurin (Pesquisador responsável: Eduardo Bica)	UFRGS	Parâmetros e vínculos de aglomerados estelares embebidos	01/06/2012 a 30/09/2012
17	Walter Augusto dos Santos Jr (Pesquisador responsável: Laerte Sodré)	IAG	Busca de Aglomerados em Levantamentos de Galáxias	01/04/2012 a 30/04/2012

<b>Categoria: Doutorado</b>				
	<b>Bolsistas (Ordem alfabética)</b>	<b>Instituição</b>	<b>Título do Trabalho</b>	<b>Vigência</b>
1	André Luiz de Amorim (Orientador: Roberto Cid Fernandes)	UFSC	Novos passos na síntese espectral de galáxias	01/08/2011 a 31/07/2012
2	Carlos Augusto Molina Velasquez (Paulo Afranio Augusto Lopes)	Observatório do Valongo	Evolução de Aglomerados de Galáxias em Redshifts Intermediários	01/09/2010 a 30/06/2012

<b>Categoria DTI</b>				
<b>Nº de bolsistas</b>	<b>Bolsistas (Ordem alfabética)</b>	<b>Instituição</b>	<b>Projeto</b>	<b>Vigência</b>
1	Marília Jobim Sartori (Pesquisador responsável: Albert Bruch)	LNA	Gerência do Escritório Brasileiro do Observatório Gemini	01/04/2010 a 31/03/2012
2	Marília Jobim Sartori (Pesquisador responsável: Albert Bruch)	LNA	Gerência do Escritório Brasileiro do Observatório Gemini	01/12/2012 a 31/03/2013
3	Aurea Garcia (Pesquisador responsável: Alberto Ardila)	LNA	A emissão de FeII em Núcleos Ativos de Galáxia	01/10/2011 a 31/03/2012

<b>Categoria AT-NS</b>				
<b>Nº de bolsistas</b>	<b>Bolsistas (Ordem alfabética)</b>	<b>Instituição</b>	<b>projeto</b>	<b>Vigência</b>
1	Juliano Romani	UFSC	ESNET– Energy Science Network	01/02/2013 a 31/01/2014

Categoria: Mestrado				
	Bolsistas (Ordem alfabética)	Instituição	Título do trabalho	Vigência
1	Alexandre Bergantini de Souza (Orientadora: Diana Andrade)	UNIVAP	Estudos de grãos e gelos orgânicos através de espectroscopia infravermelha e espectrometria de massas: Relevância para a astrofísica	01/04/2011 a 31/03/2012
2	Astor João Schonell Junior (Orientador: Rogemar André Riffel)	UFSM	Espectroscopia de Campo Integral da Região Central de Galáxias Ativas	01/04/2011 A 31/03/2013
3	Bruno Correia Mota (Orientador: Alex Carciofi)	IAG	Um Estudo Teórico da Evolução Temporal das Características Interferométricas de Estrelas Be	01/04/2011 a 31/03/2012
4	Fellipy Dias Silva (Orientadora: Thais Idiart)	IAG	Datação e processos de feedback em galáxias elípticas	01/04/2011 a 29/02/2012
5	Iara Tosta e Melo (Orientador: Anderson Caproni)	UNICSUL	BI Lac On 231: Estudando A Cinemática De Seu Jato Em Escalas De Parsec	01/04/2011 a 31/03/2013
6	Luciana de Oliveira Ruiz (Orientador: Gustavo Amaral Lanfranchi)	UNICSUL	A distribuição de matéria escura e a evolução de galáxias esferoidais anãs	01/10/2010 a 30/09/2012
7	Suzi Izaquiel Ferreira Diniz (Orientadora: Lucimara Pires Martins)	UNICSUL	Desvendando a Natureza do Mecanismo de Ionização em LINERS	01/10/2010 a 31/03/2012
8	William Schoenell (Orientador: Roberto Cid Fernandes Junior)	UFSC	Método bayesiano de casamento espectral de galáxias	01/03/2010 a 30/11/2011

**Fellowships: Visiting Fellow (BEV-A)**

Noemi Pinilla-Alonso (Orientadora: Thais Mothé-Diniz/UFRJ)

## Appendix A

### SCIENTIFIC PRODUCTION – 2009/2015

**Table A1 - Distribution of the papers published by the INCT-A researchers in 2009, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	34	23
MNRAS	A2	35	23
ApJ	A1	27	18
PhRvD	A2	10	7
AJ	A2	10	7
PhRvL	A1	1	1
AstL	s/c	1	1
CoPhC	s/c	1	1
JCAP	A1	5	3
PhLB	A2	3	2
Icarus	B1	2	1
GReGr	B2	1	1
AdSpR	s/c	4	3
Aph	B3	1	1
P&SS	s/c	1	1
CeMDA	B4	1	1
ApSS	B4	4	3
RMxAA	B1	1	1
New Astron	B2	2	1
IJMPA	B3	3	2
PASJ	B1	1	1
PASA	s/c	2	2
Ast L	s/c	1	1
PhRvL	A1	1	1
CoPhC	s/c	1	1

**Total 148 papers:**

**83% Qualis A**

**11% Qualis B**

**6% Others**

**Table A2 - Distribution of the papers published by the INCT-A researchers in 2010, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	45	25
MNRAS	A2	36	20
ApJ	A1	25	14
PhRvD	A2	13	7
AJ	A2	9	5
JCAP	A1	6	3
Icarus	B1	4	2
IJMPA	B3	8	4
AdSpR	s/c	6	3
Aph	B3	2	1
ApSS	B4	5	3
RMxAA	B1	2	1
New Astron	B2	1	1
Nature	A1	1	1
PhLB	A2	2	1
PhRvC	A2	1	
JphCS		2	
IJT		1	
EL		1	
Cos Re		1	
SoPh		1	
JGRE		1	
CQGra		1	
AdAst		1	
AN		1	

**Total: 177 papers**

**78% Qualis A**

**12% Qualis B**

**10% Others**

**Table A3 - Distribution of the papers published by the INCT-A researchers in 2011, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	40	22
MNRAS	A2	58	31
ApJ	A1	40	22
PhRvD	A2	6	3
AJ	A2	11	6
Icarus	B1	2	1
IJMPS	B3	4	2
ApSS	B4	2	1
RMxAA	B1	2	1
Nature	A1	2	
PhLB	A2	1	
PASP	A2	2	
CQGra		1	
AdAst		1	
Others		17	

**Total: 185 papers**

**86% Qualis A**

**5% Qualis B**

**9% Others**

**Table A4 - Distribution of the papers published by the INCT-A researchers in 2012, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	41	24
MNRAS	A2	47	27
ApJ	A1	39	22
PhRvD	A2	4	2
AJ	A2	5	3
JCAP	A1	5	3
Icarus	B1	1	1
IJMPA	B3	1	1
AdSpR	s/c	3	2
ApSS	B4		1
RMxAA	B1		1
New Astron	B2	2	1
Nature	A1	2	1
PASP	A2	1	
PhRvL	A1	1	
JphCS		2	
JGRE		1	
AdAst		1	
Others		12	

**Total: 174 papers**

**83% Qualis A**

**2% Qualis B**

**15% Others**



**Table A5 - Distribution of the papers published by the INCT-A researchers in 2013, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	48	26
MNRAS	A2	55	30
ApJ	A1	39	21
PhRvD	A2	8	4
AJ	A2	5	3
JCAP	A1	1	1
Icarus	B1	2	1
IJMPA	B3	2	1
AdSpR	s/c	2	1
Aph	B3	2	1
ApSS	B4	1	1
RMxAA	B1	3	2
New Astron	B2	2	1
PASP	A2	1	1
PhRvC	A2	1	1
PhRvL	A1	1	1
SoPh		1	1
JGRE			
CQGra		1	
AdAst			
AN		1	
Others		9	

**Total: 185 papers**

**86% Qualis A**

**6% Qualis B**

**8% Others**

**Table A6 - Distribution of the papers published by the INCT-A researchers in 2014, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	60	30
MNRAS	A2	62	31
ApJ	A1	38	19
PhRvD	A2	6	3
AJ	A2	6	3
JCAP	A1	3	1
Icarus	B1	-	-
IJMPA	B3	2	1
AdSpR	s/c	-	-
ApSS	B4	4	2
RMxAA	B1	1	-
New Astron	B2	2	1
Nature	A1	1	-
PhRvC	A2	1	-
PhRvL	A1	1	-
SoPh		1	-
JGRE			
CQGra		3	
AdAst		1	
AN		2	
Others		8	

**Total: 201 papers**

**88% Qualis A**

**4% Qualis B**

**7% Others**

**Table A7 - Distribution of the papers published by the INCT-A researchers in 2015, by journal**

<b>Journal</b>	<b>Qualis</b>	<b>Nr of papers</b>	<b>%</b>
A&A	A2	47	26
MNRAS	A2	60	34
ApJ	A1	43	24
AJ	A2	6	3
JCAP	A1	2	2
ApSS	B4	4	2
PASP	A2	1	1
RMxAA	B1	1	-
New Astron		3	2
GQGra		3	2
GReGr		1	-
PhA		1	
SoPh		1	-
JGRE			
CQGra		3	
PASJ		1	
AN		1	
Others		3	

**Total: 178 papers**

**89% Qualis A**

**3% Qualis B**

**8% Others**

**Table A8 - Distribution of the papers published by the INCT-A researchers in 2016, by journal**

Journal	Qualis	Nr of papers	%
A&A	A2	56	29
MNRAS	A2	64	33
ApJ	A1	32	16
PhRvDA2	2	1	
AJ	A2	4	2
JCAP	A1	5	3
Icarus	B1	3	2
IJMPA	B3	1	
AdSpR	s/c	2	1
Aph	B3	2	1
ApSS	B4	2	1
RMxAA	B1	1	
New Astron	B2	2	1
Nature	A1	2	1
Science	A1	1	
PhLB	A2	1	
PhRvC	A2	1	
PASP	A2	2	1
PASA		2	1
JGRA		1	
SSRv		1	
Cos Re		1	
AN		1	
CMDA		2	1
EPJA		1	
P&SS		1	
JPhCS		1	
GRGr		1	

Total: 195 papers

88% Qualis A

6% Qualis B

6% Others

## Appendix B - EaD Teachers Approved

### B1– 2011

1. Adriana Hitomi Deguchi
2. Ana Paula Freire da Silva
3. Anderson Ramos da Silva
4. Andre Fernando de Sousa
5. Antonio Beltrame
6. Carlos Alberto de Lima
7. Carlos Richard Eduardo Matheus Lizárraga
8. Denise Assis da Silva
9. Eliane Honório de Oliveira
10. Elton Moraes Barbosa
11. Fábiana Almeida Lino
12. Fabiano de Pádua Conceição
13. Fabio Roberto Lessa de Oliveira
14. Fernando Augusto Silva
15. Francimara Nascimento da Silva Marcondes
16. Hildebrando José Balieiro Ramos
17. Janecléia Alves Lourenço
18. João Wesley da Silva Nunes
19. José Manoel Damas Neto
20. Josué Antunes de Macedo
21. Juraci Pereira Sotero – MATO GROSSO
22. Liliane Pimentel da Silva
23. Luana Neri Thomaz da Silva
24. Lyara Araujo Gomes
25. Margarete Agosta de Arruda
26. Maria Helena Pereira
27. Mauricio Galante Muzetti
28. Michele Aparecida Alves Lopes
29. Miriam Milanelo
30. Nathali Ingrid de Castro
31. Nathália Lopes Valderrama
32. Patrícia Petricone Moraes
33. Paulo Alexsandro Veloso
34. Regiane Souza Pinto
35. Reinaldo Borges Júnior
36. Renata da Silva Cavalcanti
37. Roberta Miyuki Toledo de Amorim
38. Roberto Galvani Felipe
39. Roger Toledo de Amorim
40. Rogério Carlos dos Santos
41. Sibeles Cristine Giroto Maziero
42. Valentina Aparecida Bordignon
43. Vitor Pereira Belotto

## B2 – EaD: Approved – 2012

1. Álvaro Jean Borges Almeida
2. Ana Lucia Cavalca Fernandes Franco de Oliveira
3. Ana Lucia Protásio de Almeida
4. Antonio Carlos da Silva
5. Aparecida Ramos Fortes Pereira
6. Ariana Souza de Santana
7. Áurea Lucia de Oliveira Dantas Albuquerque
8. Breno Alexandre Dalosto
9. Cely Garcia Fernandes Pereira
10. Clélia Scalon de Medeiros
11. Daniel Atkocius Filho
12. Décio Carlos Namba
13. Douglas Rizzi
14. Enilce Aparecida Junquetti Ferraz da Motta
15. Fernanda Gracielly Moura Alves
16. Fernando Cesar Dalben Posse
17. Francisco Mondillo Neto
18. Genésio Ferreira Parreira
19. Jackeline Suelen do Nascimento
20. Jenifer Garcia
21. José Aparecido Requena
22. Luciene Oliveira de Azevedo do Rosário
23. Lucineide Sales Marciano
24. Magaly Consulino
25. Mara Lúcia Teixeira Rosa
26. Marco Aurelio Correa
27. Mariana Ferreira Campello
28. Marilyn Celisa Cannavan
29. Monique Sanfilippo Rojas
30. Nágila Euclides da S. Polido
31. Nanci G. Ribeiro Guimarães – RIO DE JANEIRO
32. Patricia Correa
33. Patricia Takahashi Lopes
34. Pedro Filipini Netto
35. Rafael de Castilho Cezzarette
36. Raimundo Gomes Soares
37. Renata Correia da Silva
38. Renata Correliano Nardocci
39. Ricardo Kokay Arpiani
40. Robinson Ferreira de Araujo
41. Rosineide Ramos Celestino
42. Sandra Neres da Silva
43. Sara Ferreira Parreira
44. Sergio Chaves Jardim
45. Simone A. Pereira da Silva

46. Tatiane Santos Rosa

### **B3 – EaD: Approved – 2013**

1. Andréa Souza Santos
2. Antonia Andréia Alves Costa
3. Audiele Aparecida da Fonseca
4. César Augusto Prieto
5. Claudia Regina Vicente
6. Danilo Oliveira dos Santos
7. Elaine Aparecida Braga
8. Elaine Cristina Felix Vieira
9. Eliude de Lima Angelo
10. Fernanda Freire
11. Francisco Carlos Zanetti
12. Gabriela Francisca de Oliveira Messias
13. Gilmar de Oliveira
14. Heliton Pereira da Silva
15. Ines Regina Vieira
16. Jeane Gonzalez de Oliveira
17. Jorzea Debora Silva
18. José Alexandre
19. Jose Carlos Chiacchio
20. José Wilton dos Santos
21. Joseani Aparecida Coelho das Neves
22. Leandro de Melo Duarte Franco
23. Leonardo Martins Pandori
24. Marco Antonio Spinelli
25. Maria de Lourdes Dantas da Silva Santos
26. Marília Gabriela Ferreira Sinzato
27. Marisa Mattos
28. Michele Pereira Silva
29. Monica Fátima de Mello Lemos Silva
30. Patrícia Gasparini
31. Renan Bastos da Silva
32. Renata Vitoria Dugain
33. Renato Mendes Mineiro
34. Sabrina Tamarozzi
35. Vânia Vieira Ramos

### **B4 – EaD: Approved – 2014**

#### **CURSISTAS APROVADOS DE ASTROFÍSICA**

1. Ana Batista Santos
2. Antonio Cesar Pinheiro
3. Camilla Oliveira dos Santos
4. Celio Ferraz Ribeiro



5. Cleber Ramos Mora
6. Daniel Augusto de Castro Spegiorin
7. Dayvidson Siqueira Eufrásio – MINAS GERAIS
8. Denis Pimentel
9. Edgard Pereira Neves
10. Esther Cambeses Polanco
11. Helder Clementino Lima Silva
12. Hugo Ricardo Conceição Eloy
13. Idelzuite Azevedo Alcântara Leme
14. Jenifer Pereira de Oliveira Pontes
15. José Vilson Bezerra
16. Juliana de Paula Chinellato
17. Kleberon Diego de Castro
18. Luciana Villaça
19. Luciano Octavio Condori Huanca
20. Marcelo Antonio Amorim - PERNAMBUCO
21. Maria das Graças Pereira Condori
22. Miriam de Carvalho
23. Paulo Rogério Borba de Aquino - BAHIA
24. Rafael Assenso
25. Regina Cláudia Pinto de Souza
26. Renata Cristina de Andrade Oliveira
27. Rodrigo Rodrigues Gimenez
28. Stefan Bovolon Feliciano
29. Wilian Stein

### **CURSISTAS APROVADOS DE SISTEMA SOLAR**

1. Alessandra Aparecida Silvano
2. Ana Rita de Jesus de Carvalho
3. André Luis de Carvalho
4. Bruno Lima Emídio
5. Clarissa de Melo Maximo de Lemos
6. Débora Regina Félix Ribeiro Valverde
7. Eliane Mitsue Kikuchi
8. Eloiza Hitomi Wakate Hieda
9. Fernando Luis Leite Carreiro
10. Isabel Aparecida Borota
11. Jairo Martins de França
12. Josemir Inácio de Lemos
13. Renata Rosie Massei Damasceno
14. Rolando Buniy
15. Vera Lúcia Malinauskas

## B5 – EaD: Approved – 2015

### ASTRONOMIA PARA DOCÊNCIA: ASTROFÍSICA

SISTEMA SOLAR – 15 semanas ou 130 horas (60 inscritos)

ASTROFÍSICA - 30 semanas ou 240 horas (40 inscritos)

1. Adriana Aparecida dos Santos
2. Aguinaldo Curti
3. Cleber Roberto da Silva
4. Daisy Alves Cardoso
5. Danila Farias Brito Ribeiro
6. Denise Martins de Araújo
7. Fernanda Cristina Franco Paixão
8. Francisco Antonio Parra
9. Francisco Rodrigues da Silva
10. Hilton Koiti Sato
11. Ludemar Paladino
12. Regiane Sales Nogueira Jurazeki
13. Sara dos Santos Dias
14. Ubiratan de Campos
15. *Marta Estavas Kogikoski\**
16. *William José Fernandes\**

*\*Cursaram apenas a parte de sistema Solar.*



Ministério da  
Ciência e Tecnologia



**B6 - EaD: Approved – 2016**

	<b>NOME</b>	<b>ESCOLA</b>
01	ÁGHATA CLEIDE LEONARDI	não lecionava
02	ALEXANDRE BRAGA	COLÉGIO ARGUMENTO - SP
03	ANA PAULA SOUZA ALMEIDA SILVA	EMEF PROF. JOÃO DE LIMA PAIVA - SP
04	ANDRÉ LUIS DE PAULA DOS SANTOS	EMEF JOÃO XXIII - SP, EE VINÍCIUS DE MORAES - COTIA
05	DANIELE ARAGÃO RONSÓ DA COSTA LIMA	COLÉGIO EDUCARE, INSTITUTO ALPHA LUMEN, PARSEC EDUCAÇÃO DE APOIO - SÃO JOSÉ DOS CAMPOS
06	DANIELE PIZZO	E E PROFA. LUIZA HIDAÇA - SUZANO/SP
07	DEISSY JOHANNA FERIA GARNICA	não lecionava
08	DIANA BORGES DOS SANTOS	E E PROF. ROLDÃO LOPES DE BARROS - SP
09	EDNEY MACEDO BONFIM	EMEF PRACINHAS DA FEB, E.E VICENTE LEPORACE - SP
10	ELIANA APARECIDA DE OLIVEIRA	EMEF PROF. ANTONIO DE FREITAS AVELAR - CARAGUATATUBA/SP
11	FLAVIO BORGES DO NASCIMENTO	E M VISTA ALEGRE - MONTE MOR/SP, E E HONORINO FABBRI – HORTOLÂNDIA/SP
12	GRACIELI PETER BENIAMINO OLIVEIRA	E E BACHAREL ELIAS ALVES DA COSTA - VARGEM GRANDE PAULISTA/SP
13	HERBERT DE ALMEIDA SILVA	EMEF MARIA INÊS BATISTA CAMILO GURGEL - FERRAZ DE VASCONCELOS/SP
14	HOENDER LUVIZOTTO	ETEC PROFA. MARIA CRISTINA MEDEIROS , COLÉGIO JEAN PIAGET - RIBEIRÃO PIRES
15	IVERSON MACHADO	ETEC PIRITUBA E PERUS - SP
16	JEAN WAGNER	E E HILTON REIS SANTOS, COLÉGIO 10 DE MAIO - SP
17	JULIANA VIEIRA	EMEF PROF. FIRMO A. DE CAMARGO DEL FIOLE, COLÉGIO OBJETIVO - TATUÍ/SP
18	LETÍCIA BREDA PAIXÃO	COLÉGIO SAINT CLAIR - SP
19	LUCAS MONTALVÃO RABELO	E E PROF. ANTENOR SARMENTO PESSOA, E E SENADOR MANUEL SEVERIANO NUNES - MANAUS/AM
20	LUCAS BIZARRIA FREITAS	ETEP, INSTITUTO ALPHA LUMEN - SÃO JOSÉ DOS CAMPOS/SP
21	MARGARETE CONDE	E E CASIMIRO DE ABREU - SP

22	RAFAEL SIMÃO DA SILVA	EMEF PROFESSOR ROSALVITO COBRA - SÃO CAETANO DO SUL/SP, E E JOSÉ MARCATO - DIADEMA/SP
23	ROGER WILLIANS CORRÊA	EEFMT MARIA THEODORA PEDREIRA DE FREITAS, ITB BASÍLIO FLORES DE AZEVEDO - BARUERI/SP
24	SUZANA UETA	E E PAULINO NUNES ESPOSO, E E DOUTOR MÁRIO LOPES LEÃO - SP
25	VITOR ANTONIO CAPPUCCELLI	

### **CURSISTAS APROVADOS DE SISTEMA SOLAR**

<b>NOME</b>		<b>ESCOLA</b>
01	ANA CLAUDIA COSSINI MARTINS	E E TUFI MADI - MIRASSOL/SP
02	ELAINE MARIA LOPES DA SILVA	E E VEREADOR MAURÍCIO ALVES BRAZ - ITAQUAQUECETUBA/SP
03	ERIK JONY ROSA	E E DR ADAIL LUIZ MILLER - SÃO BERNARDO DO CAMPO/SP
04	KARINA GUTERMAN	COLÉGIO RAINHA DA PAZ - SP
05	KELY CRISTINA ROCHA VIEIRA	E E PARQUE ANHANGUERA - SP
06	LILIAN ADRIANA BOM ANGELO SPOLADORE	EMEF DES. SILVIO PORTUGAL - SP
07	LILIAN MARIA SOJA	
08	MELINA MACHADO AGOSTINI QUADROS	E E ACHILES MALVEZZI, E E VOLUNTÁRIO CARMO TURANO POTIRENDABA/SP
09	SANDRA PAVÃO DA SILVA	COLÉGIO RAINHA DA PAZ - SP
10	SANDRO DA SILVA BRAGA	EMEF PLÍNIO AYROSA - SP
11	SÉRGIO LEANDRO DE OLIVEIRA	COLÉGIO FUTURA - JUNDIAÍ/SP
12	TELMA APARECIDA ROCHA RAVAGNANI	E E ACHILES MALVEZZI - POTIRENDABA/SP

## Appendix C

### C1 - Papers published by Brazilian authors containing data from the SOAR

2016

Baptista, Raymundo; Borges, Bernardo W.; Oliveira, Alexandre S.; 2016, Monthly Notices of the Royal Astronomical Society, 463, p.3799 - "SOAR observations of the high-viscosity accretion disc of the dwarf nova V4140 Sagittarii in quiescence and in outburst" (<http://adsabs.harvard.edu/abs/2016MNRAS.463.3799B>)

Pauletti, D.; Copetti, M. V. F.; 2016, Astronomy & Astrophysics, 595, id.A10 - "Spectroscopic mapping of the physical properties of supernova remnant N 49" (<http://adsabs.harvard.edu/abs/2016A%26A...595A..10P>)

Dias, B.; Kerber, L.; Barbuy, B.; Bica, E.; Ortolani, S.; 2016, Astronomy & Astrophysics, 591, id.A11 - "SMC west halo: a slice of the galaxy that is being tidally stripped?. Star clusters trace age and metallicity gradients" (<http://adsabs.harvard.edu/abs/2016A%26A...591A..11D>)

Damineli, A.; Almeida, L. A.; Blum, R. D.; Damineli, D. S. C.; Navarete, F.; Rubinho, M. S.; Teodoro, M.; 2016, Monthly Notices of the Royal Astronomical Society, 463, p. 2653 - "Extinction law in the range 0.4-4.8  $\mu\text{m}$  and the 8620 Å DIB towards the stellar cluster Westerlund 1" (<http://adsabs.harvard.edu/abs/2016MNRAS.463.2653D>)

Roman-Lopes, A.; Franco, G. A. P.; Sanmartim, D.; 2016, The Astrophysical Journal, 823, p.96 - "SOAR Optical and Near-infrared Spectroscopic Survey of Newly Discovered Massive Stars in the Periphery of Galactic Massive Star Clusters I-NGC 3603" (<http://adsabs.harvard.edu/abs/2016ApJ...823...96R>)

Pinheiro, M. C.; Ortiz, R.; Abraham, Z.; Copetti, M. V. F.; 2016, Publications of the Astronomical Society of Pacific, 128, p.054301 - "Photometric and Spectroscopic Survey of the Cluster [DBS2003] 156 Associated with the H II Region G331.1-0.5" (<http://adsabs.harvard.edu/abs/2016PASP..128e4301P>)

Teodoro, M.; Damineli, A.; Heathcote, B.; Richardson, N. D.; Moffat, A. F. J.; St-Jean, L.; Russell, C.; Gull, T. R.; Madura, T. I.; Pollard, K. R.; Walter, F.; Coimbra, A.; Prates, R.; Fernández-Lajús, E.; Gamen, R. C.; Hickel, G.; Henrique, W.; Navarete, F.; Andrade, T.; Jablonski, F.; Luckas, P.; Locke, M.; Powles, J.; Bohlsen, T.; Chini, R.; Corcoran, M. F.; Hamaguchi, K.; Groh, J. H.; Hillier, D. J.; Weigelt, G.; 2016, The Astrophysical Journal, 819, 131 - "He II  $\lambda 4686$  Emission from the Massive Binary System in  $\lambda$  Car: Constraints to the Orbital Elements and the Nature olescope, per year.

2015

Bica, E.; Santiago, B.; Bonatto, C.; Garcia-Dias, R.; Kerber, L.; Dias, B.; Barbuy, B.; Balbinot, E.; 2015, Monthly Notices of the Royal Astronomical Society, 453, 3190 - "***Bridge over troubled gas: clusters and associations under the SMC and LMC tidal stresses***" (<http://adsabs.harvard.edu/abs/2015MNRAS.453.3190B>)



Hansen, T.; Hansen, C. J.; Christlieb, N.; Beers, T. C.; Yong, D.; Bessell, M. S.; Frebel, A.; García Pérez, A. E.; Placco, V. M.; Norris, J. E.; Asplund, M.; 2015, *The Astrophysical Journal*, 807, id. 173 - "**An Elemental Assay of Very, Extremely, and Ultra-metal-poor Stars**" (<http://adsabs.harvard.edu/abs/2015ApJ...807..173H>)

Oksala, M. E.; Grunhut, J. H.; Kraus, M.; Borges Fernandes, M.; Neiner, C.; Condori, C. A. H.; Campagnolo, J. C. N.; Souza, T. B.; 2015, *Astronomy & Astrophysics*, 578, id.A112 - "**An infrared diagnostic for magnetism in hot stars**" (<http://adsabs.harvard.edu/abs/2015A%26A...578A.112O>)

Navarete, F.; Damineli, A.; Barbosa, C. L.; Blum, R. D.; 2015, *Monthly Notices of the Royal Astronomical Society*, 450, p.4364 - "**A survey of extended H<sub>2</sub> emission from massive YSOs**" (<http://adsabs.harvard.edu/abs/2015MNRAS.450.4364N>)

Takeda, Larissa; Diaz, Marcos; 2015, *New Astronomy*, 39, p. 64 - "**A search and modeling of peculiar narrow transient line components in novae spectra**" (<http://adsabs.harvard.edu/abs/2015NewA...39...64T>)

Silva, K. M. G.; Rodrigues, C. V.; Oliveira, A. S.; Almeida, L. A.; Cieslinski, D.; Costa, J. E. R.; Jablonski, F. J.; 2015, *Monthly Notices of the Royal Astronomical Society*, 451, p. 4183 - "**MLS110213:022733+130617: a new eclipsing polar above the period gap**" (<http://adsabs.harvard.edu/abs/2015MNRAS.451.4183S>)

Martinazzi, E.; Kepler, S. O.; Costa, J. E. S.; Pieres, A.; Bonatto, C.; Bica, E.; Fraga, L.; 2015, *Monthly Notices of the Royal Astronomical Society*, 447, p.2235 - "**New SX Phe variables in the globular cluster NGC 288**" (<http://adsabs.harvard.edu/abs/2015MNRAS.447.2235M>)

Lindsay, S. S.; Marchis, F.; Emery, J. P.; Enriquez, J. E.; Assafin, M.; 2015, *Icarus*, 247, p. 53 - "**Composition, mineralogy, and porosity of multiple asteroid systems from visible and near-infrared spectral data**" (<http://adsabs.harvard.edu/abs/2015Icar..247...53L>)

Schimoia, Jaderson S.; Storchi-Bergmann, Thaisa; Grupe, Dirk; Eracleous, Michael; Peterson, Bradley M.; Baldwin, Jack A.; Nemmen, Rodrigo S.; Winge, Cláudia; 2015, *The Astrophysical Journal*, 800, id. 63 - "**Short-timescale Monitoring of the X-Ray, UV, and Broad Double-peak Emission Line of the Nucleus of NGC 1097**" (<http://adsabs.harvard.edu/abs/2015ApJ...800...63S>)

## 2014

Borissova, J.; Chené, A.-N.; Ramírez Alegría, S.; Sharma, S.; Clarke, J. R. A.; Kurtev, R.; Negueruela, I.; Marco, A.; Amigo, P.; Minniti, D.; Bica, E.; Bonatto, C.; Catelan, M.; Fierro, C.; Geisler, D.; Gromadzki, M.; Hempel, M.; Hanson, M. M.; Ivanov, V. D.; Lucas, P.; Majaess, D.; Moni Bidin, C.; Popescu, B.; Saito, R. K.; 2014, *Astronomy & Astrophysics*, 569, id.A24, 25 pp. - "**New galactic star clusters discovered in the VVV survey. Candidates projected on the inner disk and bulge**" (<http://adsabs.harvard.edu/abs/2014A%26A...569A..24B>)

Fornasier, S.; Lazzaro, D.; Alvarez-Candal, A.; Snodgrass, C.; Tozzi, G. P.; Carvano, J. M.; Jiménez-Teja, Y.; Silva, J. S.; Bramich, D. M.; 2014, *Astronomy & Astrophysics*, 568, id.L11, 5 pp. - "***The Centaur 10199 Chariklo: investigation into rotational period, absolute magnitude, and cometary activity***"  
(<http://adsabs.harvard.edu/abs/2014A%26A...568L..11F>)

Coffey, D.; Longinotti, A. L.; Rodríguez-Ardila, A.; Guainazzi, M.; Miniutti, G.; Bianchi, S.; de la Calle, I.; Piconcelli, E.; Ballo, L.; Linares, M.; 2014, *Monthly Notices of the Royal Astronomical Society*, 443, 1788 pp. - "***Absorption at the dust sublimation radius and the dichotomy between X-ray and optical classification in the Seyfert galaxy H0557-385***"  
(<http://adsabs.harvard.edu/abs/2014MNRAS.443.1788C>)

Kepler, S. O.; Fraga, Luciano; Winget, Don Earl; Bell, Keaton; Córscico, Alejandro H.; Werner, Klaus; 2014, *Monthly Notices of the Royal Astronomical Society*, 442, 2278 pp. - "***Discovery of a new PG 1159 (GW Vir) pulsator***"  
(<http://adsabs.harvard.edu/abs/2014MNRAS.442.2278K>)

Braga-Ribas, F.; Sicardy, B.; Ortiz, J. L.; Snodgrass, C.; Roques, F.; Vieira-Martins, R.; Camargo, J. I. B.; Assafin, M.; Duffard, R.; Jehin, E.; Pollock, J.; Leiva, R.; Emilio, M.; Machado, D. I.; Colazo, C.; Lellouch, E.; Skottfelt, J.; Gillon, M.; Ligier, N.; Maquet, L.; Benedetti-Rossi, G.; Gomes, A. Ramos; Kervella, P.; Monteiro, H.; Sfair, R.; El Moutamid, M.; Tancredi, G.; Spagnotto, J.; Maury, A.; Morales, N.; Gil-Hutton, R.; Roland, S.; Ceretta, A.; Gu, S.-H.; Wang, X.-B.; Harpsøe, K.; Rabus, M.; Manfroid, J.; Opitom, C.; Vanzi, L.; Mehret, L.; Lorenzini, L.; Schneider, E. M.; Melia, R.; Lecacheux, J.; Colas, F.; Vachier, F.; Widemann, T.; Almenares, L.; Sandness, R. G.; Char, F.; Perez, V.; Lemos, P.; Martinez, N.; Jørgensen, U. G.; Dominik, M.; Roig, F.; Reichart, D. E.; Lacluyze, A. P.; Haislip, J. B.; Ivarsen, K. M.; Moore, J. P.; Frank, N. R.; Lambas, D. G.; 2014, *Nature*, 508, 72 pp. - "***A ring system detected around the Centaur (10199) Chariklo***"  
(<http://adsabs.harvard.edu/abs/2014Natur.508...72B>)

Ribeiro, A. O.; Roig, F.; Cañada-Assandri, M.; Carvano, J. M. F.; Jasmin, F. L.; Alvarez-Candal, A.; Gil-Hutton, R.; 2014, *Planetary and Space Science*, 92, 57 p. - "***The first confirmation of V-type asteroids among the Mars crosser population***"  
(<http://adsabs.harvard.edu/abs/2014P%26SS...92...57R>)

Rauber, A. B.; Copetti, M. V. F.; Krabbe, A. C.; 2014, *Astronomy & Astrophysics*, 563, id.A42, 15 pp. - "***Spectroscopic mapping of the planetary nebula NGC 6302***"  
(<http://adsabs.harvard.edu/abs/2014A%26A...563A..42R>)

Placco, Vinicius M.; Frebel, Anna; Beers, Timothy C.; Christlieb, Norbert; Lee, Young Sun; Kennedy, Catherine R.; Rossi, Silvia; Santucci, Rafael M.; 2014, *The Astrophysical Journal*, 781, id. 40, 14 pp. - "***Metal-poor Stars Observed with the Magellan Telescope. II. Discovery of Four Stars with [Fe/H] <= -3.5***"  
(<http://adsabs.harvard.edu/abs/2014ApJ...781...40P>)

Guenou, L.; Adami, C.; Durret, F.; Lima Neto, G. B.; Ulmer, M. P.; Clowe, D.; LeBrun, V.; Martinet, N.; Allam, S.; Annis, J.; Basa, S.; Benoist, C.; Biviano, A.; Cappi, A.; Cypriano, E. S.; Gavazzi, R.; Halliday, C.; Ilbert, O.; Jullo, E.; Just, D.; Limousin, M.; Márquez, I.; Mazure, A.; Murphy, K. J.; Plana, H.; Rostagni, F.; Russeil, D.; Schirmer, M.; Slezak, E.; Tucker, D.; Zaritsky, D.; Ziegler, B.; 2014, *Astronomy & Astrophysics*, 561, id.A112, 60 pp. - **"Structure and substructure analysis of DAFT/FADA galaxy clusters in the [0.4-0.9] redshift range"**  
(<http://adsabs.harvard.edu/abs/2014A%26A...561A.112G>)

Dias, B.; Kerber, L. O.; Barbuy, B.; Santiago, B.; Ortolani, S.; Balbinot, E.; 2014; *Astronomy & Astrophysics*, 561, id.A106 - **"Self-consistent physical parameters for five intermediate-age SMC stellar clusters from CMD modelling"**  
(<http://adsabs.harvard.edu/abs/2014A%26A...561A.106D>)

### 2013

Volkov, I. M.; Chochol, D.; Grygar, J.; Jelinek, M.; Kubanek, P.; Masek, M.; Prouza, M.; Ribeiro, T.; Sebastian, D.; Van Houten, C. J.; 2013, *Information Bulletin on Variable Stars*, 6066 - **"Period changes in the eclipsing binary DX Vel"**

Marocco, F.; Andrei, A. H.; Smart, R. L.; Jones, H. R. A.; Pinfield, D. J.; Day-Jones, A. C.; Clarke, J. R. A.; Sozzetti, A.; Lucas, P. W.; Bucciarelli, B.; Penna, J. L.; 2013, *The Astronomical Journal*, 146, id. 161, 19 pp. - **"Parallaxes of Southern Extremely Cool Objects (PARSEC). II. Spectroscopic Follow-up and Parallaxes of 52 Targets"**

Durret, F.; Perrot, C.; Lima Neto, G. B.; Adami, C.; Bertin, E.; Bagchi, J.; 2013, *Astronomy & Astrophysics*, 560, id.A78, 10 pp. - **"The merging cluster of galaxies Abell 3376: an optical view"**

Mendes de Oliveira, Cláudia; Taylor, Keith; Quint, Bruno; Andrade, Denis; Ferrari, Fabrício; Laporte, Rene; de A. Ramos, Giseli; Guzman, Christian Dani; Cavalcanti, Luiz; de Calasans, Alvaro; Ramirez Fernandez, Javier; Gutierrez Castañeda, Edna Carolina; Jones, Damien; Fontes, Fernando Luis; Molina, Ana Maria; Fialho, Fábio; Plana, Henri; Jablonski, Francisco J.; Reitano, Luiz; Daigle, Olivier; Scarano, Sergio; Amram, Philippe; Balard, Philippe; Gach, Jean-Luc; Carignan, Claude; 2013; *Publications of the Astronomical Society of the Pacific*, 125, 396-408 - **"The Brazilian Tunable Filter Imager for the SOAR Telescope"**

Cieslinski, Deoniso; Diaz, Marcos P.; Mennickent, Ronald E.; KoLaczkowski, Zbigniew; Pereira, Claudio B.; 2013; *Information Bulletin on Variable Stars*, 6088 - **"Identification of Be and carbon stars in the Magellanic Clouds as a by-product of a symbiotic star search"**

Romero, A. D.; Kepler, S. O.; Córscico, A. H.; Althaus, L. G.; Fraga, L.; 2013; *The Astrophysical Journal*, 779, 58 - **"Astroseismological study of massive ZZ Ceti stars with fully evolutionary models"**

Hergenrother, Carl W.; Nolan, Michael C.; Binzel, Richard P.; Cloutis, Edward A.; Barucci, Maria Antonietta; Michel, Patrick; Scheeres, Daniel J.; d'Aubigny, Christian Drouet; Lazzaro, Daniela; Pinilla-Alonso, Noemi; Campins, Humberto; Licandro, Javier; Clark, Beth E.; Rizk, Bashar; Beshore, Edward C.; Lauretta, Dante S.; 2013; *Icarus*, 226, 663-670 - "***Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu***"

Campos, Fabíola; Kepler, S. O.; Bonatto, C.; Ducati, J. R.; 2013; *Monthly Notices of the Royal Astronomical Society*, 433, 243 - "***Multichromatic colour-magnitude diagrams of the globular cluster NGC 6366***"

Furlanetto, Cristina; Santiago, Basílio X.; Makler, Martín; Cypriano, Eduardo S.; Caminha, Gabriel B.; Pereira, Maria E. S.; Neto, Angelo Fausti; Estrada, Juan; Lin, Huan; Hao, Jianguang; McKay, Timothy A.; da Costa, Luiz N.; Maia, Marcio A. G.; 2013; *Monthly Notices of the Royal Astronomical Society*, 432, 88 - "***The SOAR Gravitational Arc Survey - I. Survey overview and photometric catalogues***"

Fraga, L.; Kunder, A.; Tokovinin, A.; 2013, *The Astronomical Journal*, 145, 165, 8 pp - "***SOAR Adaptive Optics Observations of the Globular Cluster NGC 6496***"

Dallessio, J.; Sullivan, D. J.; Provencal, J. L.; Shipman, H. L.; Sullivan, T.; Kilkenny, D.; Fraga, L.; Sefako, R.; 2013, *The Astrophysical Journal*, 765 - "***Periodic Variations in the O – C Diagrams of Five Pulsation Frequencies of the DB White Dwarf EC 20058–5234***"

Jasmin F.; Lazzaro, D.; Carvano, J.M.F.; Mothé-Diniz, T.; Hasselman, P.H.; 2013, *Astronomy & Astrophysics*, 552, 85 - "***Mineralogical investigation of several Qp asteroids and their relation to the Vesta family***".

Castanheira, B. G.; Kepler, S. O.; Kleinman, S. J.; Nitta, A.; Fraga, L.; 2013, *Monthly Notices of the Royal Astronomical Society*, 10 pp. - "***Discovery of five new massive pulsating white dwarf stars***"

Pinilla-Alonso, N.; Alvarez-Candal, A.; Melita, M. D.; Lorenzi, V.; Licandro, J.; Carvano, J.; Lazzaro, D.; Carraro, G.; Alí-Lagoa, V.; Costa, E.; Hasselmann, P. H.; 2013, *Astronomy & Astrophysics*, 550, A13 - "***Surface composition and dynamical evolution of two retrograde objects in the outer solar system: 2008 YB<sub>3</sub> and 2005 VD***"

Lazzaro, D.; Barucci, M. A.; Perna, D.; Jasmim, F. L.; Yoshikawa, M.; Carvano, J. M. F.; 2013, *Astronomy & Astrophysics*, 549, L2 - "***Rotational spectra of (162173) 1999 JU<sub>3</sub>, the target of the Hayabusa2 mission***"

Furlanetto, C.; Santiago, B. X.; Makler, M.; de Bom, C.; Brandt, C. H.; Neto, A. F.; Ferreira, P. C.; da Costa, L. N.; Maia, M. A. G.; 2013, *Astronomy & Astrophysics*, 549, A80 - "***A simple prescription for simulating and characterizing gravitational arcs***"

## 2012

Kepler, S. O.; Pelisoli, Ingrid; Peçanha, Viviane; Costa, J. E. S.; Fraga, Luciano; Hermes, J. J.; Winget, D. E.; Castanheira, Barbara; Córscico, A. H.; Romero, A. D.; Althaus, Leandro; Kleinman, S. J.; Nitta, A.; Koester, D.; Külebi, Baybars; Jordan, Stefan; Kanaan, Antonio; 2012, *The Astrophysical Journal*, 757, id. 177 - **"Seismology of a Massive Pulsating Hydrogen Atmosphere White Dwarf"**

Pinheiro, M. C.; Abraham, Z.; Copetti, M. V. F.; Ortiz, R.; Falceta-Gonçalves, D. A.; Roman-Lopes, A.; 2012, *Monthly Notices of the Royal Astronomical Society*, 423, 2425 - **"The young stellar cluster [DBS2003] 157 associated with the H II region GAL 331.31-00.34"**

Provencal, J. L.; Montgomery, M. H.; Kanaan, A.; Thompson, S. E.; Dalessio, J.; Shipman, H. L.; Childers, D.; Clemens, J. C.; Rosen, R.; Henrique, P.; Bischoff-Kim, A.; Strickland, W.; Chandler, D.; Walter, B.; Watson, T. K.; Castanheira, B.; Wang, S.; Handler, G.; Wood, M.; Vennes, S.; Nemeth, P.; Kepler, S. O.; Reed, M.; Nitta, A.; Kleinman, S. J.; Brown, T.; Kim, S.-L.; Sullivan, D.; Chen, W. P.; Yang, M.; Shih, C. Y.; Jiang, X. J.; Sergeev, A. V.; Maksim, A.; Janulis, R.; Baliyan, K. S.; Vats, H. O.; Zola, S.; Baran, A.; Winiarski, M.; Ogloza, W.; Paparo, M.; Bognar, Z.; Papics, P.; Kilkenny, D.; Sefako, R.; Buckley, D.; Loaring, N.; Kniazev, A.; Silvotti, R.; Galletti, S.; Nagel, T.; Vauclair, G.; Dolez, N.; Fremy, J. R.; Perez, J.; Almenara, J. M.; Fraga, L.; 2012, *The Astrophysical Journal*, 751, 91, **"Empirical Determination of Convection Parameters in White Dwarfs. I. Whole Earth Telescope Observations of EC14012-1446"**

Teodoro, M.; Damineli, A.; Arias, J. I.; de Araújo, F. X.; Barbá, R. H.; Corcoran, M. F.; Borges Fernandes, M.; Fernández-Lajús, E.; Fraga, L.; Gamen, R. C.; González, J. F.; Groh, J. H.; Marshall, J. L.; McGregor, P. J.; Morrell, N.; Nicholls, D. C.; Parkin, E. R.; Pereira, C. B.; Phillips, M. M.; Solivella, G. R.; Steiner, J. E.; Stritzinger, M.; Thompson, I.; Torres, C. A. O.; Torres, M. A. P.; Zevallos Herencia, M. I.; 2012, *The Astrophysical Journal*, 746, 73, **"He II  $\lambda 4686$  in  $\eta$  Carinae: Collapse of the Wind-Wind Collision Region during Periastron Passage"**

## 2011

Ruschel-Dutra, Daniel; Riffel, Rogério; Ducati, Jorge Ricardo; Pastoriza, Miriani; 2011, *Publications of the Astronomical Society of the Pacific*, 123, 1004-1009, **"The XDSpres CL-Based Package for Reducing OSIRIS Cross-dispersed Spectra"**

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## Appendix D

### Ms and Dr degrees obtained with data from the SOAR and Gemini Telescopes

#### D1 - Ms and Dr degrees obtained with data from the SOAR Telescope

##### Master degrees:

Aysses do Carmo Oliveira: 2016, INPE, Orientador: Francisco José Jablonski -  
"Caracterização de um Sistema Triplo Eclipsante entre as Variáveis do Levantamento Ogle"

Ariana França Clavia: 2016, UFMG, Orientador: João Francisco C. Santos Junior -  
"Aglomerados Binários da Pequena Nuvem de Magalhães".

\*Ana Maria Molina Arcila: 2014, USP, Orientador: Fábio de Oliveira Fialho - *"High resolution Fabry-Pérot interferometer - dynamic system modeling and nanopositioning control system design"*.

Germano Schamann Bortolotto: 2014, UFSC, Orientador: Antônio Kanaan -  
*"Coeficientes de extinção atmosféricas com uma câmera de todo-céu."*

Larissa Takeda : 2014, IAG/USP, Orientador: Marcos Diaz - *"Sobre a origem dos sistemas de linhas estreitas em novas"*

Felipe Donizeti T. Navarete: 2013, IAG/USP, Orientador: Augusto Damineli Neto -  
*"Procura de estrelas de alta massa em formação"*

Viviane Salvador Alves: 2013, IAG/USP, Orientadora: Sílvia Rossi - *"Calibração de Metalicidades de Estrelas Sub-anãs Pobres em Metais"*

Maria Elidaiana da Silva Pereira: 2012, CBPF, Orientador: Martín Makler -  
*"Determinação das Elipticidades Intrínsecas das Galáxias para Medidas do Lenteamento Gravitacional Fraco"*

Eduardo Balbinot: 2011, UFRGS, Orientador: Basílio Xavier Santiago - *"Aglomerados de estrelas em estado avançado de dissolução: estudos de caso no grupo local."*

\* Denis Furtado de Andrade: 2011, Poli/USP, Orientador: Francisco Javier Ramirez Fernandez - *"Sistema Embarcado para Aquisição de Imagebs Astronômicas"*

\* Luiz Cavalcanti: 2011, Poli/USP, Orientador: Francisco Javier Ramirez Fernandez -  
*"Sistema de controle para o filtro óptico sintonizável fabry-perot do instrumento BTFI"*

Bruno Dias: 2010, IAG/USP, Orientadora: Beatriz Barbuy - *"Aglomerados estelares da Pequena Nuvem de Magalhães"*

\* Bruno Quint: 2010, IF/USP, Orientador: Mikya Muramatsu - *"Modelagem numérica de alto nível de filtros do tipo Fabry-Pérot e de redes de difração holográficas para o instrumento BTFI"*

\* Julian David Rodriguez Ramirez: 2010, Poli/USP, Orientador: Francisco Javier Ramirez Fernandez - *"Desempenho de dispositivos fotodetectores com multiplicação de elétrons por avalanche"*

Fabíola Campos: 2009, UFRGS, Orientadores: Kepler de Souza Oliveira e Charles Bonatto - *"Os aglomerados globulares NGC 6366 e NGC 6397"*

\* Referem-se a dissertações de mestrado em instrumentação do SOAR.

### **Doctorate theses:**

Carlos Eduardo Barbosa, 2016, IAG/USP, Orientadora: Claudia Mendes de Oliveira - *"Cinemática e populações estelares de galáxias no Universo local"*

Rogério Monteiro de Oliveira, 2016, IAG/USP, Orientador: Eduardo Cypriano - *"Uma contribuição ao estudo de aglomerados de galáxias em fusão"*

Diogo Pauletti: 2015, UFSM, Orientador: Marcus V. F. Copetti - *"Mapeamento espectroscópico de propriedades físicas dos remanescentes de Supernova N49 e N11L"*

Bruno Corrêa Quint: 2015, IAG/USP, Orientadora: Claudia Mendes de Oliveira - *"Estudo e caracterização do instrumento Brazilian Tunable Filter Imager"*

Bruno Moreira de Souza Dias: 2014, IAG/USP, Orientadora: Beatriz Barbuy - *"Formação e evolução de aglomerados globulares da Gláxia e Nuvens de Magalhães"*

Aline Beatriz Rauber: 2013, UFSM, Orientador: Marcus V. F. Copetti - *"Variações espaciais de propriedades físicas e químicas das nebulosas planetárias NGC 6302 e NGC 2440"*

Flavia Luzia Jasmim: 2013, ON, Orientadora: Daniela Lazzaro - *"Estudo da composição superficial de diversas classes de pequenos corpos"*

Gabriel Bartosch Caminha: 2013, CBPF, Orientador: Martín Makler - *"Um prelúdio para o levantamento gravitacional forte em levantamentos de grandes áreas"*

Fabíola Campos, 2013, UFRGS, Orientador: Kepler de Souza Oliveira Filho - *"Estudo de evolução estelar através de alongamentos globulares galácticos"*

Igor Antônio Cancela Melnik, 2013, UFSM, Orientador: Marcus V. F. Copetti - *"Estudo dos remanescentes de supernova N 49 e N 63A"*

Júlio César Tello Gálvez, 2012, INPE, Orientador: Francisco Jablonski - *"Análise de binárias eclipsantes no bojo da galáxia com dados OGLE - II usando o código Wilson-Devinnay"*

Cristiana Furlanetto, 2012, UFRGS, Orientador: Basílio X. Santiago - *"Arcos gravitacionais em aglomerados de galáxias: detecção, caracterização e modelamento"*

Marcio do Carmo Pinheiro, 2012, UFSM, Orientador: Marcus V. F. Copetti - *"Estudo multibanda do conteúdo estelar de regiões  $h$ ,  $\{sc\}$  do hemisfério sul"*

Oscar Cavichia, 2012, IAG/USP, Orientador: Roberto D. D. Costa - *"Populações e evolução do bojo e região central da Galáxia "*

Francisco Ferreira de Souza Maia , 2012, UFMG, Orientador: Joao Francisco C. Santos Jr. - *"Caracterização e evolução estrutural de aglomerados abertos Galácticos"*

Tiago Ribeiro: 2011, UFSC, Orientador: Raymundo Baptista - *"Atividade cromosférica em estrelas de alta rotação e baixa massa"*

Tibério Borges Vale: 2010, UFRGS, Orientador: Basílio Xavier Santiago - *"Influência da Densidade Ambiental na Estrutura de Discos de Galáxias Edge-on"*

Vinícius Moraes Placco: 2010, IAG, Orientadora: Silvia Rossi - *"Busca por Estrelas muito pobres em Metais Baseada no Enriquecimento em Carbono"*

Adriana Pires: 2009, IAG, Orientadores: Christian Motch (Observatoire Astronomique) e Eduardo Janot Pacheco (IAG) - *"Population Study os Radio-Quiet and Termally Emitting"*

Mairan Teodoro: 2009, IAG, Orientador: Augusto Damineli - *"Análise Multi-espectral dos eventos cíclicos de  $n$  Carinae"*

## **D2 - Ms and Dr theses obtained with data from the Gemini Telescopes**

### **Doctorate theses:**

Rogério Monteiro de Oliveira, 2016, IAG/USP, Orientador: Eduardo Cypriano - *"Uma contribuição ao estudo de aglomerados de galáxias em fusão"*

Guimlherme dos Santos Couto, 2016, UFRGS, Orientadora: Thaisa Storchi Bergmann - *"Feeding and Feedback em rádio galáxias do Universo Local"*

Diego Lorenzo de Oliveira, 2016, UFRJ, Orientador: Gustavo Frederico Porto de Mello - *"Cronômetros Estelares: Calibrando a Atividade Cromosférica em Estrelas de Baixa Massa"*

Daniel May Nicolazzi, 2016, IAG/USP, Orientador: João E. Steiner - *"Propriedades de núcleos ativos de galáxias observadas no infravermelho próximo com óptica adaptativa"*

Daniel Ruschel Dutra: 2015, UFRGS, Orientadora: Miriani Pastoriza - *"O ambiente circum-nuclear em galáxias ativas: formação estelar, toro de poeira e cinemática do gás"*

Daniel Alf Drehmer: 2015, UFRGS, Orientadora: Thaisa Storchi Bergmann - *"Cinemática Escalar, Modelos Dinâmicos e Determinação de Massas de Buracos Negros Supermassivos"*

José Andrés Hernández Jiménez: 2015, UFRGS, Orientadora: Miriani Pastoriza - *"Efeitos da Interação na Cinemática, Morfologia e Dinâmica das Galáxias em Fusão Menor: AM1219-430, AM2058-381 e AM1228-260"*

Beatriz Fernandes: 2014, IAG/USP, Orientadora: Jane Gregorio-Hetem - *"Características espectrais de estrelas jovens associadas à nebulosa Sh2-296"*

Paula Maria Fernanda Urrutia Viscarra: 2014, IAG/USP, Orientadora: Cláudia Mendes de Oliveira - *"As propriedades e o caminho evolutivo das regiões de formação estelar no meio intergaláctico."*

Flávia Luzia Jasmim: 2013, ON, Orientadora: Daniela Lazzaro - *"Estudo da composição superficial de diversas classes de pequenos corpos"*

David Sanmartim, 2013, UFRGS, Orientadora: Thaisa Storchi Bergmann - *"População estelar e cinemática de quasares post-starburst"*

Gabriel Bartosch Caminha: 2013, CBPF, Orientador: Martín Makler - *"Um Prelúdio Para o Levantamento Gravitacional Forte em Levantamentos de Grandes Áreas"*

Allan Schnorr Muller: 2013, UFRGS, Orientadora: Thaisa Storchi Bergmann - *"Alimentação do Buraco Negro Supermassivo no Núcleo de Galáxias Ativas"*

Ana Beatriz de Mello: 2013, ON, Orientadora: Silvia Lorenz Martins - *"C-J Ricas em Silicato: Binaridade, Discos de Poeira e seu Lugar no Universo das Estrelas Carbonadas"*

Tiago V. Ricci: 2013, IAG/USP, Orientador: João E. Steiner - *"Análise da emissão nuclear e circumnuclear de gás de uma amostra de 10 galáxias elípticas e lenticulares"*

Dinalva Aires de Sales: 2012, UFRGS, Orientadora: Miriani Pastoriza - *"Propriedades físicas dos silicatos e hidrocarbonetos aromáticos policíclicos presentes na região nuclear das galáxias Seyferts e Starburst"*

Francisco Ferreira de Souza Maia: 2012, UFMG, Orientador: Joao Francisco C. Santos Jr. - *"Caracterização e evolução estrutural de aglomerados abertos Galácticos"*

Roberto Bertoldo Menezes: 2012, IAG/USP, Orientador: João Evangelista Steiner - *"Espectroscopia 3D de núcleos ativos de galáxias: tratamento e análise de dados no"*

*óptico e no infravermelho próximo"*

Manoel Vieira de Moraes Jr.: 2010, IAG/USP, Orientador: Marcos Perez Diaz -  
*"Tratamento das condensações em modelos de fotoionização de envoltório de novas:  
aplicação em HR Delphini e V842 Centauri"*

Luan Ghezzi Ferreira Pinho: 2010, ON, Orientadora: Katia Cunha - *"Metalicidades e  
Abundâncias de Lítio em Estrelas com Planetas como Vínculos para os Modelos de  
Formação Planetária"*

Vinícius Bordalo Schmidt Marques: 2009, ON, Orientador: José Eduardo Telles -  
*"Cinemática Interna: a relação L-sigma das galáxias H II."*

Alan Alves Brito: 2008, IAG/USP, Orientadora: Beatriz Barbuy - *"Aglomerados  
Blobulares Ricos em Metais: Traçadores da Evolução Química da Galáxia."*

Sérgio Scarano: 2008, IAG/USP, Orientador: Jacques Lepine - *"Curvas de Rota e o  
Gradiente de Metalicidade de Galáxias Espirais: o Papel da Corrota e Novas  
Observações"*

Rogemar A. Riffel: 2008, UFRGS, Orientadora: Thaisa Storchi Bergmann -  
*"Mapeamento "tridimensional" do entorno dos buracos negros supermassivos em  
galáxias Seyfert"*

Patricio Lagos: 2008, ON, Orientador: José Eduardo Telles - *"Distribuição espacial das  
populações estelares e o meio interestelar nas galáxias HII"*

Sandro Barboza Rembold: 2007, UFRGS, Orientadora: Miriani G. Pastoriza -  
*"Propriedades dinâmicas e populacionais do aglomerado de galáxias LCDCS-S001"*

Fausto Barbosa: 2007, UFRGS, Orientadora: Thaisa Storchi Bergmann - *"Cinemática  
estelar e de linhas de emissão na região nuclear de galáxias Seyfert com uso de  
espectrografia IFU"*

Barbara Garcia Castanheira: 2007, UFRGS, Orientador: Kepler de S. Oliveira Filho -  
*"Sismologia das estrelas ZZ Ceti"*

Natalia Veronica Boris: 2006, IAG/USP, Orientador: Laerte Sodré Jr. - *"Busca de  
Estruturas em Grandes Escalas em Altos Redshifts: Estudo Fotométrico de Quatro  
Campos contendo Pares de Quasares em  $z \sim 1$ "*

Alvaro Alvares-Candal: 2006, ON, Orientadora: Daniela Lazzaro - *"Inter-relação e  
Propriedades Físicas de Asteróides Cometas e Objetos Trans-netunianos".*

Elysandra Figueredo: 2005, IAG/USP, Orientador: Augusto Damineli - *"Conteúdo  
Estelar de Regiões HII Gigantes da Galáxia"*

Cassio Leandro Dal Ri Barbosa: 2004, IAG/USP, Orientador: Augusto Damineli - *"O*



## ***Ambiente de Formação de Estrelas de Alta Massa***

Eduardo Serra Cypriano: 2002, IAG/USP, Orientador: Laerte Sodré Jr. - ***"Lentes Gravitacionais em Aglomerados de Galáxias"***

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### **Master degrees:**

Patrícia da Silva, 2016, IAG/USP, Orientador: João E. Steiner - "Estudo de núcleos de galáxias gêmeas da Via Láctea"

Luis Gabriel Dahmer Hahn: 2015, UNIFEI, Orientador: Alberto Rodríguez Ardila - ***"Mecanismos de Excitação, População Estelar e Propriedades Físicas de LINERs no Óptico e Infravermelho Próximo"***

Anelise Audibert: 2015, UFRGS, Orientador: Rogemar Riffel - ***"Testando as propriedades do modelo unificado de Galáxias de núcleo ativo"***

Rafael Fraga Guerço: 2015, ON, Orientadora: Katia Cunha - ***"A abundância de flúor na Via Láctea"***

Carine Brum: 2015, UFRGS, Orientador: Rogemar Riffel - ***"Cinemática e distribuição do gás ionizado na Região Central das Galáxias Seyfert NGC4501 e NGC3982"***

Moiré G. Hennig: 2014, UFSM, Orientador: Rogemar Riffel - ***"Tomografia PCA aplicada a Cubos de Dados no Infravermelho próximo a Galáxia Seyfert Mrk 1066"***

Isadora Chaves Bicalho Domingos: 2014, ON, Orientador: José Eduardo Telles - ***"Galáxias Anãs com Linhas de Emissão Largas"***

Maiara Sampaio Carvalho: 2014, UESC, Orientador: Henri Michel Pierre Plana - ***"Cinemática das galáxias HII: UM461 e CTS1020"***

Evelyn Cristine de Freitas Marques Martins: 2014, UNIVAP, Orientador: Cássio Leandro Dal Ri Barbosa - ***"População Estelar da Região W51"***

Marlon Rodrigo Diniz: 2013, UFSM, Orientador: Rogemar Riffel - ***"Cinemática Bidimensional da Região Central das Galáxias Seyfert NGC 1068 e NGC 2110"***

Nathália Cibirka de Oliveira: 2013, IAG/USP, Orientador: Eduardo Cypriano - ***"Espectroscopia multi-objeto de aglomerados de galáxias com arcos gravitacionais"***

Astor Schonell Jr: 2013, UFSM, Orientador: Rogemar Riffel - ***"A distribuição e cinemática do gás em MRK 766 vistas em detalhes a partir de observações no infravermelho"***

Guilherme dos Santos Couto: 2012, UFRGS, Orientadora: Thaisa Storchi Bergmann - ***"A natureza dos braços espirais nucleares da galáxia ativa Arp102B"***



Jáderson da Silva Schimoia: 2011, UFRGS, Orientadora: Thaisa Storchi-Bergmann -  
*"Variações rápidas do perfil de duplo-pico em [UTF-8?]H $\hat{I}$  $\pm$  no núcleo de NGC1097"*

Rogério Monteiro de Oliveira: 2011, IAG/USP, Orientador: Eduardo S. Cypriano -  
*"Aglomerados de Galáxias em Fusão"*

Daniel May Nicolazzi: 2011, IAG/USP, Orientador: João Evangelista Steiner - *"Análise de espectroscopia 3D de núcleos ativos de galáxias no infravermelho próximo e com óptica adaptativa"*

Ana Cecília Soja: 2011, IAG/USP, Orientador: Laerte Sodré Jr. - *"O Aglomerado de Galáxias RXC J1504-0248 "*

Deise Aparecida Rosa: 2011, UNIVAP, Orientador: Angela Cristina Krabbe -  
*"Cinemática e densidade eletrônica do gás ionizado nos sistemas de galáxias em interação AM1256-433 & AM1401-324"*

Flávia Luiza Jasmim: 2009, Orientadora: Daniela Lazzaro - *"Estudo dos Asteróides do Tipo-Q e sua Relacao com Meteoritos Condritos Ordinários"*

Roberto Bertoldo Menezes: 2009, IAG/USP, Orientador: João Evangelista Steiner -  
*"Diferenciação de Modelos para LINERs"*

Allan Schnorr Müller: 2009, UFRGS, Orientadora: Thaisa Storchi Bergmann -  
*"Cinemática do gás na região circumnuclear de galáxias ativas"*