



Comunicações da SAB

8 de fevereiro de 2019 - Nº 796

Editado por Alan Alves Brito

Notas do Editor

- A **Ouvidoria** da SAB (**informações logo abaixo dos comunicados**) é um importante mecanismo de comunicação entre a SAB e associados/as.
- Convidamos a comunidade a visitar o nosso facebook (<https://www.facebook.com/SABAstronomia/>).

Informes da Diretoria

1. Revista Brasileira de Astronomia

Anúncio: <https://drive.google.com/open?id=1AdWYWuI1LMvEBkKfS1IMfCP7vB67ZRNr>

Lançada a primeira revista sobre o tema escrita integralmente por especialistas na área e produzida pela Sociedade Astronômica Brasileira. No primeiro número, tudo sobre os buracos negros, além de matérias sobre a Via Láctea e o ensino de Astronomia nas escolas.

Para adquirir seu exemplar, incluindo informações para assinaturas anuais, basta acessar: <https://sab-astro.org.br/sab/rba/>.

O pagamento será feito através de transferência bancária, e você receberá a revista em sua casa pelos Correios.

Você pode também fazer a compra diretamente na sede da SAB ou adquirir o exemplar digital.

A revista é gratuita para associados Júnior e Astrônomo Amador.

Para tornar-se sócio da SAB, visite <https://sab-astro.org.br/associacao/adesao/>

Informes da Comunidade

1. Astrônomo Residente para o SOAR

(Comunicado por Luciano Fraga em 01/02/2019)

O Escritório Nacional do SOAR informa à comunidade astronômica brasileira a disponibilidade de uma vaga para Astrônomo Residente a ser financiada através de bolsa de pós-doutorado no exterior do CNPq.

O Telescópio SOAR (Southern Astrophysical Research telescope) reúne os parceiros Brasil (através do MCTIC), NOAO, University of North Carolina e Michigan State University para operar um telescópio astronômico moderno de 4.1-m de

abertura no Cerro Pachon, Chile.

O LNA, na sua função de Escritório Nacional do Projeto SOAR, procura um astrônomo para atuar como Astrônomo Residente Brasileiro junto ao SOAR para executar tarefas como:

- * Avaliação do desempenho do telescópio.
- * Manutenção, calibração e documentação de instrumentos.
- * Comissionamento de novos instrumentos e modos operacionais do telescópio.
- * Atendimento aos astrônomos visitantes.
- * Acompanhamento in situ de observações remotas.
- * Pesquisa própria.

O local de trabalho é em La Serena (na sede da AURA) com estadas ocasionais em Cerro Pachón.

As atividades devem ter início em setembro de 2019.

Os candidatos selecionados devem se comprometer a permanecer pelo menos um ano, preferencialmente dois, em La Serena. Destacamos que a bolsa de astrônomo(a) residente pode ser renovada por até três anos consecutivos. Benefícios adicionais, além da bolsa paga pelo CNPq, podem ser concedidos pelo SOAR. Como requisitos mínimos, os candidatos devem ter concluído o doutoramento, ter experiência observacional em astronomia óptica e/ou no infravermelho próximo, e conhecimentos de redução e análise de dados com IRAF e Python. Experiência instrumental é altamente desejada mas não é fundamental para a obtenção da vaga. Por restrições do CNPq, estrangeiros sem visto permanente no Brasil não podem se candidatar.

Candidatos interessados devem manifestar sua intenção de concorrer pelas vagas por e-mail a Luciano Fraga (lfraga@lna.br <<mailto:lfraga@lna.br>>) na maior brevidade até a data limite de **25 de fevereiro de 2019**.

Interessados(as) que ainda não concluíram o doutorado mas têm data marcada de defesa antes de setembro de 2019 podem também se candidatar.

2. Pós-doutorado em Atividade Estelar no IAG/USP

(Comunicado por Jorge Melendez em 02/02/2019)

O grupo do Prof. Jorge Meléndez (<http://www.astro.iag.usp.br/~jorge/>) no Departamento de Astronomia da Universidade de São Paulo, convida candidatos para uma vaga de pós-doc FAPESP na área de Atividade Estelar, para estudar os efeitos da atividade magnética estelar, usando diversos espectrógrafos como HARPS/ESO, ESPRESSO/ESO e HIRES/Keck.

Os candidatos devem possuir experiência em espectroscopia estelar de alta resolução, e devem ter obtido um doutorado entre 9/2013 a 8/2019. O pós-doc poderá realizar pesquisa independente por até metade do seu tempo.

Mais informações sobre como se candidatar: <https://jobregister.aas.org/ad/bc18cccc>

3. Pesquisa do telescópio Gemini

(Comunicado por Bruno Castilho em 05/02/2019)

Anúncio: <https://mailchi.mp/gemini.edu/registration-deadline-june-30-for-science-and-evolution-of-gemini-observatory-conference-3381197?e=339bb06ee9>

Gemini Observatory has received a multi-million dollar award from NSF to advance our leadership in the in the era of Multi-Messenger Astronomy.

The GEMMA program funded by this award will focus on the areas of high spatial resolution and rapid-response astronomy. Hence, we are in the early stages of designing and building a next-generation adaptive optics system for Gemini North (GNAO). This will be a laser-assisted, multi-conjugate adaptive optics system inspired by the GeMS system at Gemini South. It is intended as a general purpose system for both imaging and spectroscopic instrumentation and will be available for both facility and visiting instruments.

The system will utilize a combination of laser and natural guide stars to provide an essentially uniform correction across a field of view approximately 2 arcmin in diameter. We expect the first light instrument to be an imager.

The timeline for the GNAO project is to have a conceptual design review late in 2019 with first light in 2024. This ambitious timeline requires a rather streamlined process; in particular it requires us to establish the scientific requirements early on, well before the conceptual design review.

To this end we are soliciting input

<[https://gemini.us3.list-manage.com/track/click?](https://gemini.us3.list-manage.com/track/click?u=2efa37b3e8427a7d8b14c8dab&id=f3ddfa08bb&e=339bb06ee9)

[u=2efa37b3e8427a7d8b14c8dab&id=f3ddfa08bb&e=339bb06ee9](https://gemini.us3.list-manage.com/track/click?u=2efa37b3e8427a7d8b14c8dab&id=f3ddfa08bb&e=339bb06ee9)> from you, our community of users.

Input by the end of February would be the most helpful.

<https://gemini.us3.list-manage.com/track/click?u=2efa37b3e8427a7d8b14c8dab&id=f3ddfa08bb&e=339bb06ee9>

Please see the GEMMA

<<https://gemini.us3.list-manage.com/track/click?u=2efa37b3e8427a7d8b14c8dab&id=83c15cc0fe&e=339bb06ee9>> web page to learn more and share you ideas and science requirements.

<https://gemini.us3.list-manage.com/track/click?u=2efa37b3e8427a7d8b14c8dab&id=83c15cc0fe&e=339bb06ee9>

4. Inscrições para o Programa de Pós Graduação em Física da UFRGS

(Comunicado por Ana Chies Santos em 05/02/2019)

Estão abertas as inscrições para o doutorado do Programa de Pós-Graduação em Física da UFRGS - nota 7 da CAPES.

Inscrições para o mestrado abrem duas vezes ao ano (em 05/2019 e 11/2019). O Programa adota a nota do Exame Unificado de Física (EUF) como um dos instrumentos de seleção para ingresso e ordenamento para concorrer a bolsas e considera que a nota desse Exame tem validade por 3 anos.

A data limite para se inscrever no EUF 2019/1 é 17/02/2019.

Mais informações podem ser encontradas em:

<https://www.if.ufrgs.br/if/ppgfs/ingresso/>
<<https://www.if.ufrgs.br/if/ppgfs/ingresso/>>
<https://www.ufrgs.br/euf/> <<https://www.ufrgs.br/euf/>>

Applications are opened to the Doctoral course of the Graduate Program in Physics of UFRGS -- among the top ranked in Brazil. Applications to the Master course opens twice a year (May and November). The Program requires the score of the Unified Exam of Physics (EUF) or equivalent exam for acceptance and ranking for scholarships. To apply to take the EUF Exam in 2019/1 you must register by 17/02/2019.

More information can be found at:

<https://www.if.ufrgs.br/if/en/ppgfs/ingresso/>
<<https://www.if.ufrgs.br/if/en/ppgfs/ingresso/>>
<https://www.ufrgs.br/euf/> <<https://www.ufrgs.br/euf/>>

5. Publicações com dados OPD/GEMINI/SOAR

(Comunicado por Bruno Castilho em 05/02/2019)

Prezado usuário, o levantamento das publicações feitas com dados obtidos dos telescópios do OPD, Gemini e SOAR é de extrema importância para o gerenciamento e continuação dos consórcios e atividades do OPD.

Solicitamos que enviem informações de artigos, teses, dissertações e similares publicados com dados dos telescópios gerenciados pelo LNA.

Ressaltamos a importância deste registro, e pedimos que sejam enviadas informações por meio deste link:

<http://www.lna.br/infoPublicacao.php>

6. São Paulo School of Advanced Science on First Light: Stars, galaxies and black holes in the epoch of re-ionization

(Comunicado por Gislene Yoko em 07/02/2019)

The Institute for Astronomy, Geophysics and Atmospheric Sciences at the University of São Paulo in São Paulo, Brazil, will organize an intensive school to introduce the future generation of young astronomers (advanced undergraduate and graduate students) to the forefront of the theoretical and observational developments of the astrophysics of the epoch of re-ionisation (EoR) including the following topics all taught by international experts:

- * Reionization
- * The First Stars
- * The First Galaxies
- * The First Black holes

- * Gravitational lensing
- * The development of structure
- * The later evolution of galaxies
- * The history of the Milky Way
- * Observational techniques of the EoR
- * Large instrumentation projects

PROGRAMME

The school is centered around 8 main lecture courses delivered by top international experts that will cover topics including the cosmic dark ages, the formation of the first stars, galaxies and black holes, and their present-day descendants such as the Milky Way and other galaxies. Focus lectures will highlight new instrumentation, surveys and modeling techniques relevant to epoch of reionisation research. Student participation will furthermore be encouraged through practical sessions such as tutorials and exercises and student talks and poster presentations.

Período: 28/07/2019 a 07/08/2019

Inscrições: 17/12/2018 a 15/04/2019

Site: <http://www.firstlight.iag.usp.br/>

7. posdoc: Newton International Pos-Doc Fellowships

(Comunicado por Bruno Castilho em 07/02/2019)

Anúncio: <https://royalsociety.org/grants-schemes-awards/grants/newton-international/>

Newton International Pos-Doc Fellowships This scheme is for non-UK scientists who are at an early stage of their research career and wish to conduct research in the UK.

Open to applications and will close at 3pm on Wednesday 27 March 2019.

Mais informações em <https://royalsociety.org/grants-schemes-awards/grants/newton-international/>

(O United Kingdom Astronomical Technology Center e a Liverpool John Moores University já manifestaram seu interesse em receber posdocs brasileiros nas áreas de astrofísica e instrumentação astronômica)

Details

The scheme provides the opportunity for the best early stage post-doctoral researchers from all over the world to work at UK research institutions for a period of two years. The scheme is jointly run by the British Academy, the Academy of Medical Sciences and the Royal Society.

Currently there is one round per year which opens in January. The Royal Society's remit covers the natural and physical sciences, including biological research, chemistry, engineering, mathematics and physics.

Applications for the humanities and social sciences should be made to the British Academy. Applications for clinical and patient oriented research should be made to the Academy of Medical Sciences.

If you are unsure about which academy to apply to, contact info@newtonfellowships.org.

Am I eligible to apply?

To be eligible to apply you must: have a PhD, or will have a PhD by the time the funding starts have no more than 7 years of active full time postdoctoral experience at the time of application (discounting career breaks, but including teaching experience and/or time spent in industry) be working outside the UK not hold UK citizenship be competent in oral and written English have a clearly defined and mutually-beneficial research proposal agreed with a UK host scientist. Before applying, please ensure that you meet all the eligibility requirements, which are explained in the scheme notes.

What is the scheme's value and tenure?

Newton Fellowships last for two years. Funding consists of £24,000 per annum for subsistence costs, and up to £8,000 per annum research expenses, as well as a one-off payment of up to £3,000 for relocation expenses (£2,000 for EEA nationals). Awards include a contribution to the overheads incurred, at a rate of 50% of the total award to the visiting researcher.

Applicants may also be eligible to receive up to £6,000 annually following the tenure of their Fellowship to support networking activities with UK-based researchers.

Eventos

1. First Announcement of the astroEDU Conference 2019

(Comunicado por Paulo S. Bretones em 03/02/2019)

Dear colleagues,

Anúncio: <https://drive.google.com/open?id=1gSzhAdOR2hcfkmXxkuMknsAdBUeLc-cG>

This is the First Announcement of the Astronomy Education Conference: Bridging Research & Practice, to be held in ESO, Garching, Munich, Germany, September 16-18, 2019.

Outline

The field of astronomy education has grown significantly over the last few decades, with an increasing number of research articles having been published by a growing number of academic and practitioner groups. Despite this, there has been no regular international conference place for astronomy education researchers and practitioners around the world to convene and discuss their work in the field. Hence this meeting is intended to be the first of a regular, bi-yearly, IAU Commission C1 Astronomy Education.

Conference with an aim to increase the quality, quantity, community and impact of astronomy education research and practice.

This conference aims to bring together astronomers, astronomy education researchers and education practitioners to communicate, discuss and tackle common issues. The three key topics span traditional and practical research exploring the purely theoretical to issues encountered attempting to embed research results into practical situations, usually mediated by standards, curriculum and instruction. The conference will also provide an opportunity for the community to discuss the results in astronomy education stemming from the IAU Strategic Plan 2010-2020 and discuss the requirements for meeting the next IAU Strategic Plan goals regarding astronomy education.

Details about transportation, hotels, agenda, calls for papers, costs and travel grants are still in preparation. To get updates as details become available, please sign up at:

<<http://iau-dc-c1.org/astroedu-conference>> iau-dc-c1.org/astroedu-conference>

For more information: **<<mailto:astroeduconf@iau-dc-c1.org>> astroeduconf@iau-dc-c1.org**

Key topics

1. Astronomy Education Research
2. Astronomy Education Standards, Curriculum and Instruction
3. Bridging research and practice in Astronomy Education

SOC Co-Chairs:

Paulo S. Bretones (Universidade Federal de São Carlos, Brazil)
Urban Eriksson (Lund University, Kristianstad University, Sweden)

SOC Members:

Janelle Bailey (Temple University, USA)
Ian Bearden (University of Copenhagen, Denmark)
Lars Lindberg Christensen (ESO, Germany)
Rosa Doran (NUCLIO - Núcleo Interactivo de Astronomia, Portugal)
Michael Fitzgerald (Edith Cowan University, Australia)
Tania Johnson (ESO, Germany)
Katrien Kolenberg (Antwerpen University, Belgium)
Nicoletta Lanciano (Università di Roma "La Sapienza", Italy)
Anthony Lelliott (University of the Witwatersrand, South Africa)
Christine Lindstrøm (Oslo Metropolitan University, Norway)
Amelia Ortiz-Gil (University of Valencia, Spain)
Pedro Russo (Leiden University, Netherlands)
Mark Subbarao (IPS/ Adler Planetarium, USA)
Akihiko Tomita (Wakayama University, Japan)

LOC Members:

Wolfgang Vieser (ESO, Germany) ♦ LOC Chair
Susana Almagro (ESO, Germany)
Tania Johnson (ESO, Germany)
Lars Lindberg Christensen (ESO, Germany)
Saeed Salimpour (Deakin University, Australia)

2. Workshop Extremely Big Eyes on the Early Universe

(Comunicado por Bruno Castilho em 05/02/2019)

Extremely Big Eyes on the Early Universe, from 9-13 September in Rome.

<https://indico.ict.inaf.it/event/779/>

Scientific Rationale

In the next decade, the commissioning of Extremely Large Telescopes (20-40m class) will allow us to see the high redshift universe using new eyes of unprecedented power. By themselves or in combination with other facilities, these new eyes will have the potential to transform our understanding of the formation and early evolution of galaxies and black holes, first light and cosmic reionization, as well as the evolution of the intergalactic and circumgalactic media.

The Big Eyes conferences will bring together an international group of experts to review the current state of the art in the study of the high redshift universe and discuss how best to use giant telescopes to learn about it. Specifically, we aim to address the following questions:

- * What potentially transformative observations will be enabled by giant telescopes? What capabilities are required?
- * What are the key synergies between giant telescopes and other facilities? What are the areas and topics where a concerted effort will yield far superior results than the sum of all parts?
- * What theoretical or observational work is needed in preparation for first light? What are the limitations in our understanding that need to be overcome?
- * What calculations are required in order to make testable predictions and interpret the results of future astronomical observations?

It is extremely important to consider these questions now, while the plans for giant telescopes can still be influenced, and there is still sufficient time to carry out preparatory theoretical and observational work that will be needed to make the most of the large investments in these facilities.

To discuss these perspectives and challenges we are organising a series of three conferences in America, Asia, and Europe, that share a common scientific goal and are linked to each other.

More information on the three events is available here:

<https://conferences.pa.ucla.edu/early-universe-2019/index.html>

Registration and abstract submission.

The Rome conference is the third of the series. Registration and abstract submission are available at this link:

<https://indico.ict.inaf.it/event/779/>

You can find more details about the scientific rationale, session topics, confirmed invited speakers, important dates and logistics on the website.

Confirmed invited speakers

Rebecca Bernstein (GMT/OCIW), Stephane Charlot (IAP), Michele Cirasuolo (E-ELT/ESO), Emanuele Daddi (CEA-Saclay), Ric Davies (MPE), Mark Dickinson (NOAO), Christophe Dumas (TMT), Laura Ferrarese (NRCC), Steve Finkelstein (Texas), Natasha Forster Schreiber (MPE), Kearn Grisdale (Oxford), Roberto Maiolino (Cambridge), Annalisa Pillepich (MPIA), Bianca Poggianti (INAF-OAPD), Paola Santini (INAF-OAR), Daniel Schaerer (Univ Geneve), Raffaella Schneider (La Sapienza, Rome), Susanna Vergani (Gepi), Eros Vanzella (INAF-OAS)

There will be a registration fee of 350 Euro which will include all lunches, coffee breaks and the conference dinner. Depending on the availability of external fundings, we might be able to waive the fee for PhD students or young postdocs. Please include your request at the time of registration.

Venue

The conference will be held in the Auditorium of the prestigious "Accademia Nazionale dei Lincei", the oldest academy worldwide, right in the heart of Rome. The Auditorium is located across the street from the Accademia's Headquarters, Palazzo Corsini.

Ouvidoria da SAB

Este é um canal de comunicação entre a Diretoria da Sociedade Astronômica Brasileira e seus associados/a. A finalidade principal desta Ouvidoria é receber manifestações dos associados como sugestões, reclamações e denúncias.

Você pode se manifestar entrando em contato com nossa Ouvidoria através do e-mail:

ouvidoriasab@sab-astro.org.br

A Ouvidoria é composta por:

1 - Daniela Mourão (UNESP)

2 - Denise Gonçalves (OV/UFRJ)

3 - Fernando Roig (ON)

4 - Walter Maciel (IAG/USP) - Coordenador

Formato para publicar no Comunicações da SAB

O formato das notícias a serem publicadas no "Comunicações da SAB" deve ser o que segue. Informamos que não serão editadas ou compostas mensagens com base em links ou textos, não serão editadas tabelas ou imagens. Deve ser informada a sessão de publicação (Informes, Oportunidades, Eventos). Arquivos ou imagens associadas devem ser enviadas preferencialmente como links, ou arquivos anexados em pdf.

Título: XXXXXX

(Comunicado por XXXX em xx/xx/xx)

Texto do que se deseja divulgar: XXXXX

As contribuições devem ser enviadas para o e-mail: comunicacoessab@sab-astro.org.br

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