Sociedade Astronômica Brasileira

Comunicações da SAB

08 de outubro de 2021 - Nº 923

Editado por Maria Jaqueline Vasconcelos

Informes da Comunidade

1. Chamada para novos membros da IAU, com data limite em 1/dezembro/2021

(Comunicado por Beatriz Barbuy em 04/10/2021)

As a rule, Individual Membership in the IAU is open to scientists with a PhD or equivalent in a branch of astrophysics. Scientists who have completed their PhD studies between the years 2016 and 2021 are eligible candidates for Junior Members in this call. IAU Individual and Junior Members do not pay dues to the Union. Those interested should contact Dr. Beatriz sending their CV to b.barbuy@iag.usp.br.

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2. IAU PhD Prize Reminder

(Comunicado por Beatriz Barbuy em 05/10/2021)

Dear colleague, I hope that this message finds you well.

As you know each IAU Division has, once a year, the opportunity to award its own prize to the candidate it feels has carried out the most remarkable work in the previous year (i.e. a PhD Thesis which has been defended between the 16 December in the previous year, and 15 December this year).

The IAU PhD Prize is open to candidates from any country, regardless of whether the country has IAU National Membership. The objective is to recognise outstanding scientific achievement in astrophysics around the world even at that early stage in the career.

I would like to count on you in informing potential candidates, in your country or institution, of this opportunity since the deadline for applications for the 2020 IAU PhD Prize will be the 15th December.

The application form is available here:
https://www.iau.org/submissions/phd-prize/.
The conditions and details for the application are available on the IAU webpage here:
https://www.iau.org/science/grants_prizes/phd_prize/.
Please find more information in our announcement here:
https://www.iau.org/news/announcements/detail/ann21057/

I thank you in advance for your collaboration.
José Miguel Rodriguez Espinosa
IAU General Secretary

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3. Posição do Colégio de Exatas, Tecnologia e Multidisciplinar da CAPES

(Comunicado por Helio J. Rocha-Pinto em 08/10/2021)

Os colegas da SAB devem ter tomado conhecimento da suspensão, por ordem judicial, do processo de avaliação quadrienal da CAPES.

O atual coordenador da área de Física/Astronomia, Prof. Fernando Lázaro Freire Jr., escreveu-me no dia 05 de outubro e solicitou à diretoria da SAB que desse ampla divulgação à posição dos coordenadores do Colégio deExatas, Tecnologia e Multidisciplinar da CAPES acerca desse problema.

O documento produzido por esse colegiado pode ser lido em:

https://sab-astro.org.br/wp-content/uploads/2021/10/ColegioExatasTecMultiCapes.pdf

Eventos

Workshop de Cosmologia e Astrofísica da UNIFESP

(Comunicado por Prof. Rodolfo Valentim em 01/10/21)

Nesta sétima edição do Workshop de Cosmologia e Astrofisica da UNIFESP, em formato virtual, serão destacados os buracos negros - teoria e observação.

O evento será realizado no dia 19/10/2021 das 14 às 20h, com uma parte de divulgação científica (para o público em geral) e outra de apresentação de trabalhos acadêmicos sobre astrofísica e cosmologia (para o público especialista).

O evento é gratuito e terá certificados emitidos pela PROEC.

Inscrições irão de 01/10 até 18/10 pelo link:
https://sistemas.unifesp.br/acad/proec-siex/index.php?page=INS&acao=2&code=20786
<https://sistemas.unifesp.br/acad/proec-siex/index.php?page=INS&acao=2&code=20786>

Para maiores informações, inclusive sobre submissão de trabalhos:

Website:
https://cliviars.wixsite.com/viiwcau
<https://cliviars.wixsite.com/viiwcau>

Facebook:
https://www.facebook.com/wcauworkshopdecosmologiaeastrofisicadaunifesp
<https://www.facebook.com/wcauworkshopdecosmologiaeastrofisicadaunifesp>

Seminários Virtuais

1. Seminários On-line do Departamento de Astronomia do IAG/USP

(Comunicado por Maria Victoria del Valle em 07/10/2021)

SEMINÁRIO DE 13 DE OUTUBRO DE 2021 AS 14:00 HS:

Nuclear discs in external galaxies and the Milky Way: building "bulges" without mergers
por Dimitri Gadotti (European Southern Observatory)

In this talk I will present two recent papers of the TIMER project with MUSE at the VLT. We have obtained high signal-to-noise and spatial resolution integral-field spectroscopy data of the inner few kpc of 21 nearby massive barred galaxies, allowing studies of the stellar kinematics and population properties with unprecedented spatial resolution. We establish the presence of nuclear discs in 19 galaxies and show that their kinematics and stellar populations are consistent with the bar-driven secular evolution picture for their formation. We also show that such nuclear discs are recovered as exponential, photometric "bulges" in careful, state-of-the-art image decompositions. Furthermore, we propose a scenario whereby such nuclear discs form from star formation in successively larger nuclear rings built by the bar. Finally, I put these observations in the context of recent results concerning the central region of our own Milky Way.

Canal do Youtube:
https://www.youtube.com/c/AstronomiaIAGUSP/live

A programação pode ser acessada em:
https://www.iag.usp.br/astronomia/seminarios-do-departamento-de-astronomia

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2. Seminários do Departamento de Astronomia da UFRGS

(Comunicado por Marina Trevisan em 07/10/2021)

SEMINÁRIO DO DIA 13 DE OUTUBRO DE 2021

"What to do in extreme times? An analysis of the astronomy communication actions in Brazil during the COVID-19 pandemic"

Patrícia Figueiró Spinelli (Museu de Astronomia e Ciências Afins)

At the end of 2019, the world was taken aback by the spread of the disease COVID-19 caused by an unknown coronavirus. Months later, the World Health Organization characterized this outbreak as a pandemic, urging decision-makers to take actions to slow down the contamination rate. Science communicators had to adapt their activities, thus supporting and/or endorsing recommendations of social distancing. Since then, Brazil has been one of the most affected countries, as a consequence of social inequality, cuts in science funding and negationist attitudes by the government. With this scenario in mind, we have asked ourselves how the Brazilian Astronomy community dedicated to science communication has been involved and/or motivated with/by this context. We have also wondered how the Astronomy communicators reacted to the new way of promoting activities due to social distancing and the impact of their online activities. To help us to answer these questions, practitioners were invited to fill out a survey that accepted replies for a period of two weeks, in April 2021. Our instrument gathered 204 valid responses, which were analyzed statistically. Some questions were framed as individual Likert-type scale items to measure the dimensions of "adaptation to social distancing", "engagement" and "motivation". Our results show that the amount and diversity of online activities have increased considerably. Among the topics addressed by communicators, besides classic topics of Astronomy, discussions about the pandemic and how science works were also present in several activities. Among those who are promoting the activities, STEM undergraduates and graduates as well as amateur astronomers are the most expressive groups. The community of astronomy communicators is getting more diverse, with increasing participation of women, Afro-Brazilians and people from the Northeastern part of Brazil. In this talk, I will explore the results of this study, which has been accepted for publication by the CAP journal, in consideration of today's relations between science and society.

Data: 13 de outubro de 2021 às 13:30

Link da transmissão ao vivo e online pelo Youtube:
https://youtu.be/CeQz2BiuQD0

Acompanhe a programação dos Seminários do Departamento de Astronomia da UFRGS em:
https://www.ufrgs.br/astronomia/events/

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3. Ciclo de Seminários da Coordenação de Astronomia e Astrofísica - Observatório Nacional

(Comunicado por Simone Daflon em 07/10/2021)

14 de outubro de 2021, 10:00 BRT

Title: Searching for dark energy off the beaten track

Palestrante: Dr Sunny Vagnozzi
Kavli Institute for Cosmology, University of Cambridge, UK

Abstract: Most of the efforts in searching for dark energy (DE) have focused on its gravitational signatures, and in particular on constraining its equation of state. However, there is a lot one can potentially learn about dark energy and more generally ultralight particles by getting off the beaten track, which I will discuss in this three-part talk. In the first part, I will focus on non-gravitational interactions of DE with visible matter, which lead to the possibility of "direct detection of dark energy" (analogous to direct detection of dark matter): I will argue that such interactions can and potentially may already have been detected in underground detectors such as XENON1T, while discussing complementary cosmological and astrophysical signatures. In the second part, I will argue for the importance of early- and late-time consistency tests of LCDM: I will present two such tests based on the early ISW effect and the ages of the oldest astrophysical objects, and discuss implications for the Hubble tension and (early and late) DE. In the final part, I will discuss new ways to probe ultralight particles (which may be connected to either dark energy or dark matter), using black hole shadows and planetary objects such as asteroids, trans-Neptunian objects, and exoplanets.

Transmissão ao vivo pelo Canal do ON no YouTube

https://www.youtube.com/user/observatorionacional

Contato: seminarioscoast@on.br

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 atraves 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

Pagamento das anuidades da SAB

A SAB é uma sociedade científica sem fins lucrativos cuja finalidade é congregar os astrônomos do Brasil. Sua única fonte de renda são as anuidades pagas pelos seus sócios. Vimos notando, nos últimos anos, uma diminuição preocupante do número de sócios quites com as anuidades. Solicitamos, por favor, que verifiquem na página da SAB (http://sab-astro.org.br) sua situação ou contactem a sra. Rosana, secretária da SAB, por meio do e-mail secsab@sab-astro.org.br.

Formato para publicar no Comunicações da SAB

As Comunicações da SAB são boletins que são enviados para todos os sócios ativos todas as sextas-feiras às 17:00 h. O formato das notícias a serem publicadas 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

E-mails de Contato

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