

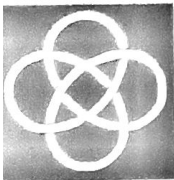


CRITERIA-3
3.5 Collaboration

**3.5.1: MOUs/Linkages/Collaboration
2020-21.**

**Linkage between Department of Physics Vs Inter University Center
for Astronomy and Astrophysics (IUCAA)**

CONTENTS		
SI No	Name	Page No:
1	Document for Linkage	2
2	Activity Report	4



अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी

IUCAA

Inter-University Centre For Astronomy And Astrophysics

An Autonomous Institution of the University Grants Commission

Prof. Kandaswamy Subramanian
Dean, Visitor Academic Programmes

August 5, 2019

By Speed-Post

Dr. K.G Biju,
Associate Professor,
Department of Physics,
WMO Arts & Science College,
Muttill P.O., Wayanad,
Kerala - 673 122.

Dear Dr. Biju,

It gives me great pleasure to invite you, on behalf of the Governing Board and Director of IUCAA to become a Visiting Associate of IUCAA from August 1, 2019 for a period of three years. I hope that you will be able to accept this invitation.

The purpose of the Associateship Programme is to help university and college faculty members in their research projects and to encourage interaction between them and the IUCAA faculty. Those selected as Visiting Associates are encouraged to visit IUCAA regularly and to actively participate in the Centre's programmes.

I am enclosing along with this letter of invitation (1) a copy of the letter I have sent to the Principal of your College, explaining the programme and requesting him/her to treat your visits to IUCAA under this programme as "on duty", (2) a copy of a letter sent in September 2, 2004 to the Vice-Chancellors of different universities by Professor Arun Nigavekar, the then Chairman of the University Grants Commission (UGC). You may use these letters when you apply for leave for visits to IUCAA, if you find that necessary.

I shall look forward to your response to this letter of invitation and hope that IUCAA will benefit from your regular visits, participation and advice. The Terms and Conditions of the Associateship Programme are enclosed along with this letter.

With kind regards,

Sincerely,

Kandaswamy Subramanian

Professor Kandaswamy Subramanian

Encl : (1) Copy of the letter sent to the Principal of your College; (2) Copy of the letter sent by UGC; (3) Terms and Conditions of the Associateship Programme.



अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी

IUCAA

Inter-University Centre For Astronomy And Astrophysics

An Autonomous Institution of the University Grants Commission

of. Kandaswamy Subramanian
pn. Visitor Academic Programmes

August 5, 2019.

The Principal,
WMO Arts & Science College,
Muttill Po, Wayanad,
Kerala-673122.

Dear Sir / Madam,

As you are aware, the Inter-University Centre for Astronomy and Astrophysics (IUCAA) has been set up by the University Grants Commission (UGC) to promote and nucleate astronomy and astrophysics in the universities and affiliated colleges. To this end, IUCAA has launched a number of programmes on its campus at Pune and also on the campuses of various universities and colleges. In particular, arrangements have been made to facilitate the usage by interested students and faculty of universities and colleges of centralized facilities at Pune, such as an advanced Computer Centre with High Performance Computing facility, a state-of-the-art library, the Instrumentation Laboratory and observational facilities including the South African Large Telescope (SALT) at Sutherland. IUCAA is also involved in a number of large projects of national and international importance like ASTROSAT, LIGO-India, the Thirty Metre Telescope, etc.

One major activity in this context is the **Associateship Programme**. Under this programme, faculty members of universities and colleges, who are made **Visiting Associates of IUCAA**, can make visits to IUCAA for specified periods to participate in the teaching and research and development activities in astronomy and astrophysics. For such purposes, the universities and colleges are encouraged to regard IUCAA as their field station, whose facilities are at their disposal. Indeed, Professor Arun Nigavekar, the then Chairman of the UGC, has written in 2004 to all the university Vice-Chancellors urging them to look upon IUCAA in this spirit and to make it possible for the Visiting Associates to use its facilities to the maximum extent possible. I enclose for your ready reference a copy of this letter from the Chairman.

As part of the Associateship Programme, IUCAA has selected 20 new Visiting Associates this year and has extended the term of 38 Visiting Associates for a further period of three years. I am happy to inform you that **Dr. K.G Biju** from your College has been selected a Visiting Associate for three years from August 1, 2019. Under the Associateship Programme, IUCAA will pay the travel and per diem of the Visiting Associates coming to IUCAA for their scientific work.

I do hope that you will encourage Dr. Biju to take advantage of this offer. I request you to treat Dr. Biju's stay at IUCAA as a part of his duties and to provide him with leave as "on duty" so that he can make good use of his Associateship. I enclose the Terms and Conditions of the Associateship Programme for your information.

With kind regards,

Sincerely,

Kandaswamy Subramanian

Prof. Kandaswamy Subramanian

Encl : (i) UGC Chairman's Letter. (ii) Terms and Conditions of Associateship Programme.
cc : Dr. K.G Biju, Department of Physics, WMO Arts & Science College, Kerala-673122.

2. ACTIVITY REPORT

1. Organized regional astronomy Meeting- Opportunities and Challenges through Online mode during 9-10 July 2020. The programme is hosted in the Gsuite account: bijjukg@wmophysics.in

9-JULY-2020 – Lightning talks Order

- "Investigating Particle Acceleration in the Wolf-Rayet Inhabited G24+1.4",
Prachi Prajapati, Physical Research Laboratory, Ahmedabad
- "Correlations Between CME Parameters and Sunspot Activity in Solar Cycle 23 and 24",
Shifana Koya, CUSAT, Kochi
- "Study of Long Term Variation in Solar Activity",
Prabhu K., CUSAT, Kochi
- "On the Identification of new Classical Ae stars using LAMOST DR7",
Anusha R., CHRIST (Deemed to be University), Bangalore
- "The ratio of blue to red supergiants indicative of the metallicity of an open cluster",
Keevithana S Narayan, CHRIST (Deemed to be University), Bangalore
- "Transition candidates from the pre-main sequence to the main sequence phase",
Suman Bhattacharyya, CHRIST (Deemed to be University), Bangalore
- "Characterization of stars in Nearby Young Moving groups",
Raksha S, CHRIST (Deemed to be University), Bangalore

10-JULY-2020 – Lightning talks Order

- "Modeling Galaxy Rotation Curves",
Lekshmi Priya, CUSAT, Kochi
- "Theory-Independent tests of General Relativity by analyzing Black Hole Images",
Suresh, University of Delhi
- "Twin Lines of Sight Observations of Metal-Rich Gas in a Galaxy Group",
Pratyush Anand, IIT, Thiruvananthapuram
- "The Longitudinal Dependence of Number Counts of Stars and Galaxies within the Solar Neighborhood",
Merin Joy, Sacred Heart College, Chakkikully
- "The study of Latitude Dependence of Number Counts of Stars and Galaxies Within the Solar Neighborhood",
Shafiq Kishore, Sacred Heart College, Chakkikully
- "Gaia view of a Warp in the outer disk of the Large Magellanic Cloud",
Saroon S. Amrita University
- "Searching The Optical and UV Counterparts of Candidate Millisecond Pulsars",
Anumaria J Puthur, Vimals college, Thrissur

About The Meeting

This is the sixth regional meeting on "Research in Astronomy: Opportunities and Challenges". We believe that this workshop will help to commence and enhance active research collaborations within Astronomy researchers in the region. As in the earlier meetings, it is earnestly hoped that this meeting will turn out to be a venue for fruitful discussions, sharing of scientific results, and beneficial collaborations among the researchers in the region.

Prof. Ranjeev Misra (IUCAA) Dr. Joe Jacob (Newman College)
Dr. Vivek M (IIA) Dr. Biju KG (WMO College, Matti)

Regional Astronomy Meeting

9 - 10 July 2020

Research in Astronomy: Opportunities and Challenges

Online platform: Google Meet

Sponsored by:



Highlights of the meeting:

- 9 Review talks by Senior Astronomers
- 22 Research talks by PhD students and Post Doc
- 14 Lightning talks by MSc students

PROGRAM SCHEDULE – 9-JULY-2020 THURSDAY

INAUGURAL SESSION (9.30-10.30 AM) CHAIR : PROF. NINAN SAJEETH PHILIP

09.30-10.00 am "Inaugural talk"
Prof. Ajit Kembhavi, IUCAA, Pune (25 + 5 mins)

10.00-10.30 am "Review on Exoplanets"
Prof. Manoj Paravankar, TIFR, Mumbai (25 + 5 mins)

30 MINS BREAK

GALACTIC & EXTRAGALACTIC ASTRONOMY- I (11.00-12.30 pm) CHAIR: PROF. INDULEKHA K

11.00-11.30 am "Gas Outside of Galaxies: An Observational Perspective",
Prof. Anand Narayan, IIT Thiruvananthapuram (25 + 5 mins)

11.30-11.45 am "The cool phase of the intergalactic medium",
Aditya Mamonov, University of Western Australia (12 + 3 mins)

11.45-12.00 pm "Probing the Circumgalactic Medium using absorption line spectroscopy of background quasars",
Sriram Sankar, IIT Thiruvananthapuram (12 + 3 mins)

12.00-12.15 pm "Gaia view of a stellar sub-structure in front of the Small Magellanic Cloud"
Abhinaya O. IIA, Bangalore (12 + 3 mins)

12.15-12.30 pm "Quenching of star formation in nearby field early-type galaxies",
Sruthi K, University of Calicut (12 + 3 mins)

LUNCH BREAK

RADIO ASTRONOMY (2.00-3.00 PM) CHAIR : DR. SMITHA SUBRAMANIAN

2.00-02.30 pm "Review talk on xGMRT",
Prof. Jeevar Chandra, NCR, Pune (25 + 5 mins)

02.30-02.45 pm "Understanding the origin of radio outflows in Seyfert Galaxies using radio polarimetry",
Biny Sebastian, NCR, Pune (12 + 3 mins)

02.45-03.00 pm "Understanding the origin of radio emission in radio-quiet quasars",
Sijya Sasikumar, NCR, Pune (12 + 3 mins)

30 MINS BREAK

STELLAR ASTRONOMY (3.30-4.45 PM) CHAIR : PROF. TITUS MATHEW

3.30-4.00 pm "Review talk",
Prof. Ramaprasadh A. N., IUCAA, Pune (25 + 5 mins)

4.00-4.15 pm "Optical spectrometry of Galactic field Classical Be stars",
Gourav Banerjee, CHRIST (Deemed to be University), Bangalore (12 + 3 mins)

4.15-4.30 pm "Do Herbig Ae/Be stars emit X-rays?",
Hema Anilkumar, CHRIST (Deemed to be University), Bangalore (12 + 3 mins)

4.30-4.45 pm "A search of Emission Line Stars from LAMOST survey",
Nishi Sabu, CHRIST (Deemed to be University), Bangalore (12 + 3 mins)

15 MINS BREAK

LIGHTNING TALKS (5.00-5.45 PM) CHAIR : PROF. HARIKRISHNAN

5.00-5.45 pm "Lightning talks", (5 mins x 7)

PROGRAM SCHEDULE – 10-JULY-2020 FRIDAY

MORNING SESSION (9.30-10.30 AM) CHAIR : PROF. PAUL K T

09.30-10.00 am "Talk on INSIST mission"
Prof. Anapsural Subramaniam, IIA, Bangalore (25 + 5 mins)

10.00-10.30 am "Exoplanet atmospheres"
Dr. Joe Niman, Penn State University, USA (25 + 5 mins)

30 MINS BREAK

GRAVITATION & COSMOLOGY (11.00-12.30 pm) CHAIR: DR. MINU JOY

11.00-11.30 am "Blazar OJ287 and its nano-Hertz GW emitting massive BH binary central engine",
Prof. A. Gopakumar, TIFR, Mumbai (25 + 5 mins)

11.30-11.45 am "Time-varying cosmological constant and implications for structure formation",
Louise Rebecca, Christ Junior College, Bangalore (12 + 3 mins)

11.45-12.00 pm "The Hubble tension: Change in dark energy or a case for modified gravity?",
Arav Kanuth, Christ Junior College, Bangalore (12 + 3 mins)

12.00-12.15 pm "Truncated causal dissipative model and recent acceleration of the universe"
Jerin Mohan N D, CUSAT, Kochi (12 + 3 mins)

12.15-12.30 pm "The law of emergence and the horizon thermodynamics",
Krishna P. B, CUSAT, Kochi (12 + 3 mins)

LUNCH BREAK

EXTRAGALACTIC ASTRONOMY- II(2.00-3.30 PM) CHAIR : PROF. RAVIKUMAR C. D.

2.00-02.30 pm "High Energy Properties of Blazars",
Prof. Debhijoy Bhattacharya, Manipal Academy of Higher Education (25 + 5 mins)

02.30-02.45 pm "Different activity states of blazar 3C 66A",
Krishna Mahana, Manipal Academy of Higher Education (12 + 3 mins)

02.45-3.00 pm "Multiwavelength monitoring of FR I radio galaxy NGC1275 and hotspot of FR II radio galaxy Pictor A",
Sanna Gulati, Manipal Academy of Higher Education (12 + 3 mins)

03.00-3.15 pm "Influence of the supermassive black holes on the star formation activities of their host active galaxies",
Anantha Murthy, Manipal Academy of Higher Education (12 + 3 mins)

03.15-3.30 pm "Studies on Dark matter planets and its Evolution",
Kiran O. V, CHRIST (Deemed to be University), Bangalore (12 + 3 mins)

30 MINS BREAK

(04.00-5.15 PM) CHAIR : TBC

4.00-4.30 pm "Review Talk TBC", (25 + 5 mins)

4.30-5.15 pm "Lightning talks", (5 mins x 7)

09-07-2020, Thursday Forenoon session, Sixth Regional Astronom...
Thursday, July 9, 2020 · 9:00am – 1:00pm

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Join by phone
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More phone numbers

Online Meeting

16 guests
11 yes, 5 awaiting

- bijjukg@wmphysics.in**
Organizer
- Drisyia Karinkuzhi**
- vivek m**
- Jithesh V**
- Minu Joy**
- Nayana Ncra**
- Reju Sam John**
- Sheelu Abraham**
- sitha jagan**
- Susmitha**
- vsreenat@gmail.com**

Going? Yes No Maybe ▾

09-07-2020, Thursday Afternoon session, Sixth Regional Astronom...
Thursday, July 9, 2020 · 1:30 – 7:00pm

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More phone numbers

15 guests
9 yes, 6 awaiting

- bijjukg@wmphysics.in**
Organizer
- Drisyia Karinkuzhi**
- vivek m**
- Jithesh V**
- Minu Joy**
- Nayana Ncra**
- Reju Sam John**
- Sheelu Abraham**
- sitha jagan**
- Charles Jose**
- Joe Jacob Bindu**
- Biju koonammakkil george**

Going? Yes No Maybe ▾

10-07-2020, Friday Forenoon session, Sixth Regional Astronom...

Friday, July 10, 2020 - 9:00am - 1:00pm



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33 guests

14 yes, 19 awaiting



bijjukg@wmphysics.in

Organizer



vivek m



Jithesh V



Biju koonammakkil george



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merin6862@gmail.com



Minu Joy



Nayana Ncra



PRABHA. K



Reju Sam John



Saroon S



Sheelu Abraham

Going?

Yes

No

Maybe



