

Brief report on the activities of IUCAA Centre for Astronomy Research And Development, Department of Physics, University of Calicut during April 1, 2020 – March 2021.

### **Area of research**

Galaxy formation and Evolution, Compact Objects

### **Seminars conducted.**

1. Online seminar on “Quenching of star formation in nearby field early-type galaxies” by Ms. Sruthi. K on Aug 19, 2020
2. Online seminar on “Study of Central Intensity ratio in nearby Seyfert galaxiesName of scholar” by Mr. Vinod. K. T on Aug 26, 2020
3. Online seminar on “Jet power estimation of PKS 2155-304 using the minimum emitted electron energy” by Sitha. K. Jagan on Sept 30, 2020
4. Online seminar “Does radiative loss decide the characteristic emission of blazar MKN 421?” by Baheeja. C on Oct 28, 2020.
5. Online seminar on “Blazar spectral modeling” by Mr. Habeeb Rahman K. K on Nov 18, 2020

### **Publications**

1. ‘**Heavy Quarkonium Properties at Finite Temperature in Strongly Coupled Quark Gluon Plasma**’, Rethika, K.T., Ravikumar, C.D., Bannur, V.M., 2021, Few-Body Systems, 62(1), 10, doi:10.1007/s00601-021-01592-6
2. ‘**Study of central intensity ratio of early-type galaxies from low-density environment**’, Sruthi, K. & Ravikumar, C. D., 2021, Monthly Notices of the Royal Astronomical Society. Volume 500, 1343–1349 (2021), doi:10.1093/mnras/staa3334