



8th ARIES Training School in Observational Astronomy-2018 (ATSOA-2018, 19th-28th March)

on-line registration: <http://www.aries.res.in/~atsoa>

The 8th ATSOA will be held from **19th-28rd March 2018** at ARIES, Manora Peak, Nainital. The focus will be on hand on experience on observational Astronomy using 1m ARIES telescope. The topics covered at the school included **Telescopes, Star Formation and Evolution, Circumstellar Matter, Radiative Processes, and Techniques of Photometry, Spectroscopy, Polarimetry as well as Galactic and Extra- Galactic Astronomy**. Priority will be given to hands-on/demo sessions on image processing and spectral analysis, and training of night sky by eye programme. The audience targeted by the school is primarily the **young M.Sc. or Ph.D first year students**, inclined to work in observational Astronomy. During the school ample time will also be for discussions and practice as well to **interact closely with ARIES Ph.D. research students who will be main driver behind the hand on sessions**.

Scientific rational: Our current understanding of the Universe depend not only on continuous growth of observation facilities, but also on the number of peoples utilizing them. Recently there has been seen serge in upcoming observatory not only national wise but also in the international scenario, such as this year installed **ARIES Devasthal 3.6m telescope** and internationally existing European very large 8.6m telescope (VLT) and American Keck 10m telescope. Similarly in the high energy range (X-ray and gamma-ray) which have been made possible by satellites such as XMM-Newton, Chandra, INTEGRAL, RXTE, Swift, and Suzaku, while ongoing new missions, like Indian Astro-sat and Fermi Gamma-Ray Observatory, alongwith upcoming 30m class telescope promise new discoveries. The same is true for radio astronomy with many discoveries from the existing world-leading radio-astronomical observatories such the ATCA, VLA, VLBA, EVN, MERLIN and GMRT in India, which is world's largest radio telescope at meter wavelength, with a range of major planned upgrades to these facilities, plus additional facilities planned and under construction.

Clearly, given these developments, the need for more researchers to exploit the enormous volume of available and upcoming scientific data, both by analyzing these data and interpreting them, is pressing. In this context, we announce **8th ARIES training school in Observational Astronomy (ATSOA)** to provide, young Indian Universities/College M.Sc. final year or fresh Ph.D. students, the necessary expertise/skill to independently conduct data-analysis relating to observational astrophysics especially in Optical domain.

IMPORTANT DATES Registration opens: **04 Jan-2018** . ✓ Registration closes: **04th Feb-2018**

First list of selection: **09th Feb 2018** . Second list of selection : **19th Feb 2018**

Schedule announcement: **05th March 2018** ATSOA 2018 to be held: **19th to 28th March 2018**

on-line registration: <http://www.aries.res.in/~atsoa> email: atsoa@aries.res.in or atsoa.aries@gmail.com

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