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Point Spread Function modelling and measurement

Tuesday, 13 June 2017 09:20 (40 minutes)

Accurate knowledge of the Point Spread Function (PSF) is crucial to meet the science goals of the wide area surveys of LSST and other telescopes. Increasing statistical precision in surveys leads to a requirement for increased accuracy in our knowledge of the PSF, which varies across images, with time and with the spectrum of the objects being observed – it is a challenging but interesting problem! The most demanding application is for enabling PSF correction in weak lensing surveys, and an approach for understanding the required accuracy is discussed, together with approaches for modelling the various physical effects that contribute to the overall PSF.

Topic:

Pushing Frontiers in astrometry & photometry

Presenter: Prof. MILLER, Lance (Oxford University)

Session Classification: Workshop