

Physics & Space Sciences Colloquium

High resolution X-ray spectroscopy and laboratory astrophysics



Diffraction grating spectrometers on the Chandra and XMM-Newton orbiting X-ray observatories have enabled routine high resolution X-ray spectroscopy of a wide variety of astrophysical sources. The Soft X-ray Spectrometer (SXS), set to launch aboard Astro-H early next year, is an X-ray calorimeter instrument which will be used to perform high resolution non-dispersive imaging X-ray spectroscopy. Interpretation of spectral data from these amazing instruments requires sophisticated models with high quality atomic data. I will highlight a few important questions that will be or are being tackled by these observatories, and will then describe how atomic data uncertainties affect our results,



Dr. Maurice Leutenegger

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Friday October 9, 2015
4:00-5:00 PM
502OPS, Room 140

Light refreshments will be served