

X-ray Spectroscopy Workshop July 11-13 2007

PROGRAM

WEDNESDAY, July 11

Photoionization I

Chair: Jane Turner

8:40 am Welcome

8:45-9:15 *Invited: Claude Canizares* - Perspectives on the Development of High Resolution X-Ray Spectroscopy

9:15-9:45 *Invited: Mike Crenshaw* - X-ray Grating Spectroscopy of AGN

9:45 Blustin - The mass-energy budget of the ionised outflow in NGC 7469

10:00 Young - High Resolution X-ray Spectroscopy of the Low-Luminosity Nucleus of M81

10:15 Detmers - NGC 5548 Revisited: The lean years

10:30-10:45 am poster haiku

10:45-11:15 am coffee

Chair: Tahir Yaqoob

11:15-11:45 *Invited: John Raymond* - High Resolution X-ray Spectra of Accretion Disks

11:45 Evans - Probing Unification With High-Resolution Spectroscopy of NGC 2110

12:00 Reeves - AGN outflows, the tip of the iceberg?

12:15 Lee - The High Resolution Optical to X-ray Study of the QSO IRAS 13349+2438

12:30-1:45 pm lunch

Collisional Ionization I

Chair: Marc Gagne

1:45-2:15 *Invited: Manuel Guedel* - X-Ray Spectroscopy of Cool Stars: From Coronal Heating to Accretion

2:15 Ayres - The Fainting of Alpha Cen A

2:30 Desai - Capella Grating Data and the Emission Line Project: An Update

2:45 Dewey - Young, Thin, and on the Move: HETG Observations of SNRs

3:00 Ji - The non-equilibrium ionization model in ISIS

3:15 Carpenter - Comparison of observed and theoretical Fe L emission from CIE plasmas

3:30-4:00 pm coffee

Chair: Chris Mauche

4-4:30 *Invited: Andy Pollock* - The physics and dynamics of the X-ray plasmas in hot stars

4:30 Kaastra - RGS spectroscopy of the Crab nebula
4:45 Liefke - Plasma diagnostics of a giant stellar flare
5:00 Maggio - Benchmark Exercises for stellar X-ray Spectroscopy Testing: initial results
5:15 Testa - Detailed plasma and fluorescence diagnostics of a stellar X-ray flare
5:30 Westbrook - X-Atlas: An Online Archive of Chandra's Stellar HETG Observations
5:45 Marshall - Modeling the SS 433 Jet Bends

THURSDAY, July 12

Elemental abundances/Photoionization II

Chair: Saku Vrtilek

8:45-9:15 *Invited: Tim Kallman* - Atomic Calculations and Laboratory Measurements
9:15-9:45 *Invited: Mike Nowak* - X-ray Binaries in the Era of Chandra and XMM High Resolution Spectroscopy
9:45 Gu - Experimental and Theoretical X-ray Wavelengths of Astrophysical Ions
10:00 Heilmann - Blazed transmission gratings for soft x-ray spectroscopy

10:15-10:30 am poster haiku

10:30-11:00 am coffee

Chair: Adrienne Juett

11:10--11:30 *Invited: Chris Mauche* - High Spectral Resolution Observations of Cataclysmic Variables
11:30 Burwitz- The complex and variable X-ray spectra of the super-soft source RXJ0513.9-6951
11:45 Braito -The remarkable soft X-ray emission of the Broad Radio Galaxy 3C 445
12:00 Goncalves - The impact of the line of sight on the estimate of X-ray plasma diagnostics
12:15 Orio - RS Ophiuchi in outburst in X-rays: an ``extreme'' nova.

12:30-1:45 pm lunch

Photoionization III

Chair: Jelle Kaastra

1:45pm-2:15 *Invited: Q. Daniel Wang* - X-ray Absorption Line Spectroscopy of the Interstellar Medium
2:15 Bianchi - On the origin of soft X-rays in obscured AGN
2:30 Ho - Modeling High-resolution, Phase-resolved Observations of Isolated Neutron Stars
2:45 Holczer - Absorption Measure Distribution of Outflows in AGNs

Discussion 1

Chair: Nancy Brickhouse

3:00 Modeling Codes and Databases-What's New and What's Needed?

3:45-4:15pm coffee

Chair: Herman Marshall

4:15-4:45 *Invited: Ehud Behar* - Highlights from X-ray Grating Spectroscopy

4:45 Murphy - Resolving the Space-Time Around Black Holes

5:00 Shulz - X-Ray Spectroscopy of Cool & Warm Absorbers with Chandra: From Oxygen to Iron

5:15 Rebecca Smith - High-res X-ray spectroscopy of AGN Warm Absorbers

FRIDAY, July 13

Collisional II

Chair: Marina Orio

8:30-9:00 *Invited: John Peterson* - X-ray Spectra of Clusters of Galaxies

9:00-9:30 *Invited: Klaus Werner* - X-ray Photospheres

9:30 Nordon - Large coronal flares and the FIP effect

9:45 Walborn - Multiwavelength Systematics of O-Type Spectra

10:00 Yao - Searching for the Large Scale Galactic Halo: Observations Confront Theories

10:15 Yu - Model fitting of high-resolution X-ray Spectroscopy of the Planetary Nebula BD+30 363

10:30-11:00 am coffee

Chair: Julia Lee

11:00-11:30 *Invited talk- Branduardi-Raymont* - X-ray Spectroscopy of Solar System Objects

11:30-12:30 Discussion/workshop (Kraemer/Lee)

12:30-1:45 pm lunch

Future Missions/Summary

Chair: Paul Green

1:45-2:15 *Invited: Jean Cottam* - High Resolution Spectroscopy with Constellation-X

2:15-2:45 *Invited: Randall Smith* - A short review of the talks and posters presented