

Scientific Analysis Activities at UNH

Arndt (Ph.D. candidate)

- Multiwavelength studies of Nov 15, 1991 flare
- Solar microflares (BATSE)

Connors

- GRB Rapid Response
- Standard GRB Telescope Analysis
- Procedure for broad-band solar flare analysis (XSPEC)
- Joint imaging-background-timing analysis

Kappadath (Ph.D. candidate)

- Cosmic Diffuse Spectrum
- Instrumental Background Studies

McConnell

- X-Ray Binaries
- 2.2 MeV Imaging
- Quiescent Solar Emission

Morris

- Orion Diffuse Emission
- SN 1991T
- Instrumental Background Studies

Rank (left UNH in August; whereabouts only approximately known)

- Solar flare studies

Ryan

- Solar flare studies
- Gamma-ray burst studies (including one RBR burst!)
- Cosmic diffuse emission
- everything else?!

Stacy (left UNH in August; now at Louisiana State Univ.)

- AGNs (COMPTEL and multi-wavelength studies)
- SIM paper

Young (Ph.D. candidate)

- Flare neutron transport modeling
- Analysis of soft nuclear solar flare spectra
- Particle acceleration in electron-rich flares

Accepted UNH Phase 7 Proposals

Proposals with UNH Principal Investigators

- **COMPTEL Rapid Burst Response (Connors)**
- **COMPTEL Observations of Soft X-Ray Transients (McConnell)**
- **Exploring the Gamma-Ray Sky at 2.2 MeV (McConnell)**
- **Estimates of Supernova Rates from COMPTEL Observations (Morris)**
- **COMPTEL Analysis of the Cosmic Diffuse Gamma Radiation (Ryan)**

Proposals Involving UNH as Team Representatives

- **Peak Aligned Averaging of BATSE GRBs with COMPTEL and EGRET Data (PI: Briggs, Mitrofanov, et al., Co-I: Connors)**
- **Rapid Follow-Up Observations of Strong Gamma-Ray Bursts with the COMPTON Observatory (PI: Fishman, Co-I: Connors)**