

# Selected Recent Publications in Refereed Journals

## Sudip Bhattacharyya

- **Sudip Bhattacharyya**, M. Coleman Miller, & Duncan K. Galloway; 2009, *Systematic variation in the apparent burning area of thermonuclear bursts and its implication for neutron star radius measurement*, Monthly Notices of the Royal Astronomical Society, in press.
- **Sudip Bhattacharyya**; 2008, *A new interesting source in Chandra field: a pulsar wind nebula?*, Monthly Notices of the Royal Astronomical Society Letters, 391, L117–L121.
- Edward M. Cackett, Jon M. Miller, **Sudip Bhattacharyya**, Jonathan E. Grindlay, Jeroen Homan, Michiel van der Klis, M. Coleman Miller, Tod E. Strohmayer, & Rudy Wijnands; 2008, *Relativistic Iron Emission Lines in Neutron Star Low-Mass X-ray Binaries as Probes of Neutron Star Radii*, Astrophysical Journal, 674, 415–420.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2007, *Thermonuclear Flame Spreading on Rapidly Spinning Neutron Stars: Indications of the Coriolis Force?*, Astrophysical Journal Letters, 666, L85–L88.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2007, *Evidence of a Broad Relativistic Iron Line from the Neutron Star Low-Mass X-Ray Binary Serpens X-1*, Astrophysical Journal Letters, 664, L103–L106.
- **Sudip Bhattacharyya**; 2007, *Timing properties of XB 1254–690*, Monthly Notices of the Royal Astronomical Society, 377, 198–202.
- **Sudip Bhattacharyya**, M. Coleman Miller, & Frederick K. Lamb; 2006, *The Shapes of Atomic Lines from the Surfaces of Weakly Magnetic Rotating Neutron Stars and Their Implications*, Astrophysical Journal, 644, 1085–1089.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2006, *Spreading of Thermonuclear Flames on the Neutron Star in SAX J1808.4–3658: An Observational Tool*, Astrophysical Journal Letters, 642, L161–L164.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2006, *Signature of Temporary Burning Front Stalling from a Non-Photospheric Radius Expansion Double-peaked Burst*, Astrophysical Journal Letters, 641, L53–L56.
- **Sudip Bhattacharyya**, Tod E. Strohmayer, Craig B. Markwardt, & Jean H. Swank; 2006, *The Discovery of a Neutron Star with a Spin Frequency of 530 Hz in A1744–361*, Astrophysical Journal Letters, 639, L31–L34.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2006, *A Non-PRE Double-peaked Burst from 4U 1636–536: Evidence of Burning Front Propagation*, Astrophysical Journal Letters, 636, L121–L124.
- **Sudip Bhattacharyya**, & Tod E. Strohmayer; 2005, *Evidence for Harmonic Content and Frequency Evolution of Oscillations during the Rising Phase of X-Ray Bursts from 4U 1636–536*, Astrophysical Journal Letters, 634, L157–L160.
- **Sudip Bhattacharyya**, Tod E. Strohmayer, M. Coleman Miller, & Craig B. Markwardt; 2005, *Constraints on Neutron Star Parameters from Burst Oscillation Light Curves of the Accreting Millisecond Pulsar XTE J1814–338*, Astrophysical Journal, 619, 483–491.