



IAU XXVII GENERAL ASSEMBLY

*Joint Discussion #3*

# Neutron Stars:

# Timing in Extreme Environments

3 - 5 August 2009



## Scientific Organizing Committee

T. Belloni (co-chair), M. Méndez (co-chair),  
C.M. Zhang (co-chair), A. Alpar, D. Barret,  
D. Chakrabarty, M. Gilfanov, J. Horvath,  
V. Kaspi, D. Lorimer, M. van der Klis, D. Melrose,  
D. Page, A. Reisenegger, G. Romero

## Invited/Solicited Speakers

N. Andersson, D. Barret, D. Bhattacharya,  
R. Breton, R. Cooper, A. Heger, C. Kouveliotou,  
M. McLaughlin, M. Méndez, D. Psaltis, P. Ray,  
G. Romero, R. Wijnands

## Principal Topics

- + Quasi-periodic oscillations from mHz to kHz
- + X-ray bursts and superbursts
- + Millisecond X-ray pulsars
- + AXP/SGR and magnetars
- + Isolated neutron stars
- + Very-high energy emission from neutron stars
- + Gravitational waves from neutron stars
- + Neutron-star equation of state and strong gravity
- + Future instrumentation for timing

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