

Astrophysical Transients: Multi-messenger Probes of Nuclear Physics

Week 3: Gravitational waves from compact objects, glitches, and other transient behavior in neutron stars.

July 25 - 29, 2011

Monday, July 25, 2011

Room C421, Physics and Astronomy Tower

- **10:30~ Ira Wasserman, Cornell University**
"R-modes and the Maximum Rotation Rate of Neutron Stars"

Room C520, Physics and Astronomy Tower

- **3:00 ~ Kai Schwenzer, Washington University, St. Louis**
"The (In)-dependence of R-mode Damping on the Microphysics"

Tuesday, July 26, 2011

Room C421, Physics and Astronomy Tower

- **10:30 ~ Mark Alford, Washington University, St. Louis**
"Bulk Viscosity and R-modes"
- **11:30 ~ Simin Mahmoodifar, Washington University, St. Louis**
"Suprathemal Bulk Viscosity of Dense Matter and its Effect on the Spin-down Evolution of Compact Stars"

Room C520, Physics and Astronomy Tower

- **3:00 ~ Bryn Haskell, University of Amsterdam**
"Constraining the Role of Gravitational Waves in LMXBs"
- **3:30 ~ Maxim Lyutikov, Purdue University**
"Electromagnetic signatures of merging and collapsing compact objects"

Wednesday, July 27, 2011

Room C421, Physics and Astronomy Tower

- **10:30 ~ Nils Andersson, University of Southampton**
"Missing Pieces in the R-Mode Puzzle"

Room C520, Physics and Astronomy Tower

- **3:00 ~ Gail McLaughlin, North Carolina State University**
"The formation of the rare earth peak during the r-process"
- **3:30 ~ Almudena Arcones, Basel University**
"The R-process as a Source of New Elements, Energy and Optical Transients"

Thursday, July 28, 2011

Room C421, Physics and Astronomy Tower

- **10:30 ~ Craig Heinke, University of Alberta**
"The Cooling Neutron Star in Cas A and its Implications"
- **11:30 ~ Robert Rutledge, McGill University**
"Calibration of Chandra ACIS-S and its Effect on Neutron Star Measurements"

Room C520, Physics and Astronomy Tower

- **3:00 ~ Aimee Hungerford, Los Alamos National Laboratory**
"A Detailed Look at Cassiopeia A; Progenitor, Explosion, and Nucleosynthesis"

Friday, July 29, 2011

Room C421, Physics and Astronomy Tower

- **10:30 ~ Achim Schwenk, TU Darmstadt**
"Neutron-rich Matter and Neutrino-matter Interactions Based on Chiral EFT"
- **11:30 ~Sergey Postnikov, Instituto de Astronomia**
"Maximally-independent Equation of State for Neutron Star Matter"

Room C520, Physics and Astronomy Tower

- **3:00 ~ Thomas Schaefer, North Carolina State University**

"Transport Properties of Dense Matter"

- **3:30 ~ William Newton, Texas A&M University**

"Crust-composition Parameters Relevant to Glitch, Oscillation, and Cooling Models"

Participants July 25-29, 2011

Mark Alford	Washington Univ, St Louis	alford@wuphys.wustl.edu	7/24-7/30	C404	5-3971
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**Please send or bring a .pdf or .ppt of your slide presentation to Janine in C411:
janine@phys.washington.edu. Thank you!**

2nd Revision July 25