

**Week 4: Merger astrophysics: Modeling electromagnetic signals, crust and disk dynamics and connections to gamma-ray bursts and transients.**

**Monday, July 21, 2014**

**Room C421, Physics/Astronomy Tower**

10:45 am: Meet-Up and Introduction

11:00 am: Brian Metzger, Columbia Univ

"Observable Signatures of Binary Neutron Star Mergers"

**Room C421, Physics/Astronomy Tower**

3:00 pm: Bing Zhang, Univ of Nevada, Las Vegas

"Electromagnetic counterparts of gravitational wave sources due to compact star mergers"

**Tuesday, July 22, 2014**

**Room C421, Physics/Astronomy Tower**

11:00 am: Charles Horowitz, Indiana Univ

TBA

**Room C421, Physics/Astronomy Tower**

2:30 pm: Francesco Pannarale, Cardiff Univ

**Room C421, Physics/Astronomy Tower**

3:15 pm: David Tsang, McGill Univ

"Resonant Shattering of Neutron Star Crusts"

**Wednesday, July 23, 2014**

**Room C421, Physics/Astronomy Tower**

11:00 am: Tsvi Piran, Hebrew Univ

"The rate of short GRBs and implications on binary neutron star mergers rates and on progenitors dynamics and on Macronova r-process nucleosynthesis"

**Room C520, Physics/Astronomy Tower**

3:00 pm: Chris Fryer, LANL

Joint INT/DUSC (Dark Universe Science Center) Seminar

"Astrophysics' Extreme Matter Experiments: Understanding the Diagnostics"

**Thursday, July 24, 2014**

**Room C421, Physics/Astronomy Tower**

11:00 am: Edo Berger, Harvard Univ

"Short GRBs: Progenitor Properties and Implications for EM Studies of GW Sources"

**Room C421, Physics/Astronomy Tower**

3:00 pm: Yuichiro Sekiguchi, Yukawa Institute for Theoretical Physics

TBA

**Friday, July 25, 2014**

**Room C421, Physics/Astronomy Tower**

11:00 am: Andrew Cumming, McGill Univ

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**Room C421, Physics/Astronomy Tower**

3:00 pm: Emil Mottola, LANL

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**INT 14-2a Participants**

July 21-25, 2014

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