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# AMS Sectional Meeting AMS Special Session

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Inquiries: meet@ams.org (mailto:meet@ams.org)

## Fall Eastern Sectional Meeting Rochester Institute of Technology, Rochester, NY September 22-23, 2012 (Saturday - Sunday) Meeting #1082

Associate secretaries:

**Steven H Weintraub**, AMS shw2@lehigh.edu (mailto:shw2@lehigh.edu)

## Special Session on Modern Relativity

- **Saturday September 22, 2012, 8:00 a.m.-10:20 a.m.**

Special Session on Modern Relativity, I

Rm. 2159, Gleason Hall

Organizers:

**Manuela Campanelli**, Rochester Institute of Technology

**Yosef Zlochower**, Rochester Institute of Technology

yosef@astro.rit.edu (mailto:yosef@astro.rit.edu)

- 8:00 a.m.

*Modern methods in numerical relativity.*

(/amsmtgs/2198\_abstracts/1082-83-312.pdf)

**Erik Schnetter\***, Perimeter Institute

(1082-83-312)

- 9:00 a.m.

*Building communities around computational challenges.*

(/amsmtgs/2198\_abstracts/1082-68-216.pdf)

**Frank Löffler\***, Louisiana State University

(1082-68-216)

- 10:00 a.m.

*Physical Interpretation of Numerical Spacetimes.*

(/amsmtgs/2198\_abstracts/1082-83-61.pdf)

**Robert Owen\***, Oberlin College

(1082-83-61)

- **Saturday September 22, 2012, 3:00 p.m.-5:45 p.m.**

Special Session on Modern Relativity, II

Rm. 2159, Gleason Hall

Organizers:

**Manuela Campanelli**, Rochester Institute of Technology

**Yosef Zlochower**, Rochester Institute of Technology

yosef@astro.rit.edu (mailto:yosef@astro.rit.edu)

- 3:00 p.m.

*The Conformal Method and Solutions of the Einstein Constraint*

*Equations: A Status Report.* (/amsmtgs/2198\_abstracts/1082-83-174.pdf)

**James A. Isenberg\***, University of Oregon

(1082-83-174)

- 4:00 p.m.

*Numerical Techniques for Generating Initial Data in General*

*Relativity.* (/amsmtgs/2198\_abstracts/1082-83-286.pdf)

**Joshua Faber\***, Rochester Institute of Technology

(1082-83-286)

- 4:30 p.m.

*Gravitational Recoil From Merging Black-Hole Binaries.*

(/amsmtgs/2198\_abstracts/1082-83-287.pdf)

**Carlos Oscar Lousto\***, Rochester Institute of Technology

**Manuela Campanelli**, Rochester Institute of Technology

**Yosef Zlochower**, Rochester Institute of Technology

**Marta Volonteri**, University of Michigan

**Massimo Dotti**, University of Milan

(1082-83-287)

- 5:00 p.m.

*Gravitational Wave Data Analysis: a Mathematical and Statistical*

*Challenge.* (/amsmtgs/2198\_abstracts/1082-65-309.pdf)

**John T Whelan\***, Rochester Institute of Technology

(1082-65-309)

- **Sunday September 23, 2012, 8:00 a.m.-10:45 a.m.**

Special Session on Modern Relativity, III

Rm. 2159, Gleason Hall

Organizers:

**Manuela Campanelli**, Rochester Institute of Technology

**Yosef Zlochower**, Rochester Institute of Technology

yosef@astro.rit.edu (mailto:yosef@astro.rit.edu)

- 8:00 a.m.

*Using Computer Simulations of Cosmological Spacetimes to Explore the Mathematics of General Relativity.*

(/amsmtgs/2198\_abstracts/1082-83-22.pdf)

**Beverly K Berger\***, Livermore, California

(1082-83-22)

- 9:00 a.m.

*Simulations of black hole binaries: Techniques and results for precessing binaries.* (/amsmtgs/2198\_abstracts/1082-83-214.pdf)

**Harald P Pfeiffer\***, Cdn. Institute for Theoretical Astrophysics, University of Toronto

(1082-83-214)

- 10:00 a.m.

*Simulating compact-binary mergers containing nearly extremal black holes.* (/amsmtgs/2198\_abstracts/1082-83-36.pdf)

**Geoffrey Lovelace\***, California State University, Fullerton

(1082-83-36)

- **Sunday September 23, 2012, 3:00 p.m.-5:45 p.m.**

Special Session on Modern Relativity, IV

Rm. 2159, Gleason Hall

Organizers:

**Manuela Campanelli**, Rochester Institute of Technology

**Yosef Zlochower**, Rochester Institute of Technology

yosef@astro.rit.edu (mailto:yosef@astro.rit.edu)

- 3:00 p.m.

*Neutron Star Magnetospheres interactions in force-free plasma.*

(/amsmtgs/2198\_abstracts/1082-83-257.pdf)

**Marcelo Ponce\***, Department of Physics, University of Guelph

**Mathew Anderson**, Department of Physics and Astronomy, Louisiana State University

**Luis Lehner**, Perimeter Institute for Theoretical Physics, Waterloo, ON; Dept.of Physics, Univ.of Guelph; CIFAR,

## Cosmology &amp; Gravity

**Steven L. Liebling**, Department of Physics, Long Island University, New York

**Carlos Palenzuela**, Canadian Institute for Theoretical Astrophysics, Toronto, Ontario  
(1082-83-257)

- 4:00 p.m.

*Neutron Star Evolutions using Tabulated Equations of State with a New Execution Model.* (/amsmtgs/2198\_abstracts/1082-83-30.pdf)


**Matthew Anderson\***, Indiana University  
(1082-83-30)

- 5:00 p.m.

*Hyperbolic-relaxation systems in Astrophysics: going beyond ideal MHD.* (/amsmtgs/2198\_abstracts/1082-85-253.pdf)

**Carlos Palenzuela\***, Canadian Institute for Theoretical Astrophysics (CITA)  
(1082-85-253)

Inquiries: [meet@ams.org](mailto:meet@ams.org) (mailto:meet@ams.org)

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