[BIRS](#) **WORKSHOP ON NUMERICAL RELATIVITY: SCHEDULE**

SUNDAY APRIL 17

7:00a-8:45a	Breakfast
8:45a-9:00a	**Brenda Shakotko, BIRS,** Welcome and Introduction to BIRS
9:00a-9:50a	**Douglas Arnold, University of Minnesota;** Introduction to the Einstein Field Equations
9:50a-10:10a	DIscussion
10:10a-10:30a	Coffee and Discussion
10:30a-11:20a	**Matt Choptuik, University of British Columbia;** Survey of numerical approximations of black hole spacetimes
11:20a-11:40a	Discussion
11:40a-3:00p	**Lunch, Free Time, Guided Tour of BIRS: Buffet Lunch from 11:30a-1:30a**
1:00-2:00p	**GUIDED TOUR OF BIRS!**
3:00p-3:30p	**Thomas Baumgarte, Bowdoin College;** Survey of neutron star simulations in NR
3:30p-3:45p	**Coffee and Discussion**
3:45p-4:15p	**Eric Hirschmann, Brigham Young University;** Black hole "no-hair" theorems and numerical relativity
4:15p-4:30p	Discussion
4:30p-4:45p	Break
4:45p-5:15p	**David Garfinkle, Oakland University;** Numerical simulatons of gravitational singularities
5:15p-5:30p	Discussion
5:30p-7:30p	**Buffet Dinner (5:30-7:30) and Free Time**
7:30p-9:00p	**Poster Session**

MONDAY APRIL 18

7:00a-9:00a	Breakfast
9:00a-9:30a	**Oscar Reula, University of Cordoba;** On strong hyperbolicity of Einstein's equations
9:30a-9:45a	Discussion
9:45a-10:15a	**Olivier Sarbach, Caltech;** Boundary conditions for Einstein's equations
10:15a-10:30a	Discussion
10:30a-10:45a	Coffee Break
10:45a-11:15a	**Carsten Gundlach, University of Southampton;** Hyperbolicity of second order systems
11:15a-11:30a	Discussion
11:30a-11:45a	GROUP PHOTO!
11:45a-2:45p	**Break; Buffet Lunch from 11:30a-1:30p**
2:45p-3:00p	**Coffee Break**
3:00p-3:50p	**Heinz Kreiss, KTH;** Difference approximations for second order hyperbolic systems
3:50p-4:10p	Discussion
4:10p-5:00p	**Eitan Tadmor, University of Maryland;** [TBA](#)
5:00p-5:20p	Discussion
5:20p-7:30p	**Buffet Dinner (5:30-7:30) and Free Time**

TUESDAY APRIL 19

7:00a-9:00a	**Breakfast**
9:00a-9:30a	**Jeff Winicour, University of Pittsburgh;** A model black hole excision problem
9:30a-9:45a	**Discussion**
9:45a-10:15a	**Frans Pretorius, Caltech;** Toward binary black hole simulations in numerical relativity
10:15a-10:45a	**Discussion**
10:45a-11:15a	**Manuel Tiglio, Louisiana State University;** High order methods for multi-block evolutions in numerical relativity
11:15a-11:30a	**Discussion**
11:30a-3:45p	**Break; Buffet Lunch from 11:30a-1:30pm**
3:45p-4:00p	**Coffee Break**
4:00p-4:30p	**Michael Holst, UC San Diego;** Finite element methods in numerical relativity
4:30p-4:45p	**Discussion**
4:45p-5:15p	**Richard Falk, Rutgers University;** Finite element methods for hyperbolic systems
5:15p-5:30p	**Discussion**
5:30p-7:30p	**Break; Buffet Dinner from 5:30p-7:30p**

WEDNESDAY APRIL 20

7:00a-9:00a	**Breakfast**
9:00a-9:30a	**Nicolae Tarfulea, Purdue University - Caulmet;** Constraint preserving boundary conditions in NR
9:30a-9:45a	**Discussion**
9:45a-10:15a	**Alexander Alekseenko, Cal State Northridge;** Constrained evolution and differential boundary conditions
10:15a-10:30a	**Discussion**
10:30a-10:45a	**Break**
10:45a-11:15a	**Helmut Friedrich, AEI, Potsdam;** Problems of calculating wave signals which characterize isolated systems
11:15a-11:30a	**Discussion**
11:30a-3:45p	**Break; Buffet Lunch from 11:30a-1:30p**
3:45-4:00p	**Coffee Break**
4:00p-4:30p	**Ralf Hiptmair, ETH Zurich;** Conservative discretization of Einstein-Dirac equations in spherical symmetry
4:30p-4:45p	**Discussion**
4:45p-5:15p	**Snorre Chistiansen, University of Oslo;** On constraint preservation in numerical simulations of Yang-Mills equations
5:15p-5:30p	**Discussion**

THURSDAY APRIL 21

7:00a-9:00a	**Breakfast**
10:15a-10:30a	**Cofee Break**
12:00 Noon	**CHECK OUT (i.e. please be checked out by 12:00 Noon)**
11:30a-1:30p	**Buffet Lunch**