

II Workshop on Formulations of Einstein's Equations for Numerical Relativity

Mexico City-UNAM, December 1-11, 2003

Scientific program:

Sessions and colloquia will be held at the "Marcos Moshinsky" lecture hall of the Nuclear Sciences Institute (ICN), with the exception of the session of the morning of Thursday 4 December which will take place at the Supercomputing Center (DGSCA)

- Monday 1st
 - 9:00 - 10:00 Registration
 - 10:00 - 11:00 Jeff Winicour: *The Apples with Apples programme*
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Denis Pollney: *Testsuites for numerical relativity*
 - 12:30 - 13:30 Carsten Gundlach: *How to make second-order nonlinear BSSN well-posed with boundaries*
 - 13:30 - 15:30 Lunch
 - 15:30 - 16:30 Work session + discussion
 - 16:30 - 17:30 Jonathan Thornburg: *Using Multiple Grid Patches for Black Hole Excision*
 - 17:30 - 18:30 Bernard Kelly: *Head-On Collisions Revisited at Penn State*
- Tuesday 2
 - 9:00 - 10:00 Jeff Winicour: *Boundary conditions for Generalized Harmonic Codes*
 - 10:00 - 11:00 Bela Szilagui: *Test Results for the Abigel Code* (talk given by Jeff Winicour)
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Ian Hawke: *Suggestions for simple tests of boundary conditions*
 - 12:30 - 13:30 Mihaela Chirvasa: *Absorbing boundary conditions*
 - 13:30 - 15:30 Lunch
 - 15:30 - 16:30 work session + discussion
 - 17:00 - 18:00 Colloquium (ICN),
- Wednesday 3
 - 9:00 - 15:00 Visit to Xochimilco (tentative)
 - 15:30 - 16:30 Work session + discussion
 - 16:30 - 17:30 Scott Hawley: *Elliptic Solvers for Constraint Preserving Evolution*
 - 17:30 - 18:30 Nigel Bishop: *The evolution of a massive particle in the characteristic gravity code*
- Thursday 4
 - 9:00 - 10:00 Erik Schnetter: *Comparing spacetimes in different coordinates*
 - 10:00 - 11:00 Hisaaki Shinkai + Gen Yoneda: *Constraint Propagation Analysis and Adjusted Systems*
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Manuel Tiglio: *Dynamical control of constraints growth in 3D black hole evolutions*
 - 12:30 - 13:30 Goddard group: *to be announced*
 - 13:30 - 15:30 Lunch
 - 15:30 - 16:30 work session + discussion
 - 16:30 - 17:30 Markus Rumpfkeil: *Elliptic gauges for numerical spacetimes*
 - 17:30 - 18:30 ICN seminar: Ed Seidel, title to be announced.

- Friday 5
 - 9:00 - 10:00 Sascha Husa: *Status report of the Scriwalker project*
 - 10:00 - 11:00 Christiane Lechner: *Computer aided Mexico-tests*
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Anil Zenginoglu: *Progress report on evolutions of the conformal field equations in spherical symmetry*
 - 12:30 - 13:30 Nina Jansen: *Using the Apples with Apples tests to study the AA system*
 - 13:30 - 15:30 Lunch
 - 15:30 - 16:30 work session + discussion
 - 16:30 - 17:30 Frank Herrmann: *Measuring waves on a numerical grid*
 - 16:30 - 17:30 Olivier Sarbach: *Constraint-preserving boundary conditions: An update*
- Monday 8
 - 9:00 - 10:00 Miguel Alcubierre: *Hyperbolic Gauge Conditions*
 - 10:00 - 11:00 Florian Beyer: *Kerr-Schild initial data for black holes*
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Bernd Reimann: *Maximal slices of Schwarzschild*
 - 12:30 - 13:30 Jose A. Gonzalez: *Regularization of evolution equations in spherical symmetry*
 - 13:30 - 15:30 Lunch
 - 15:30 - 18:00 Working session
- Tuesday 9
 - 9:00 - 10:00 Discussion + review of results
 - 10:00 - 11:00
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30
 - 12:30 - 13:30
 - 13:30 - 15:30 Lunch
 - 15:30 - 18:00 Working session
- Wednesday 10
 - 9:00 - 10:00 Discussion + review of results
 - 10:00 - 11:00
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30
 - 12:30 - 13:30
 - 13:30 - 15:30 Lunch
 - 15:30 - 17:30 Working session
 - 17:30 - 18:30
- Thursday 11
 - 9:00 - 10:00 Discussion + review of results
 - 10:00 - 11:00
 - 11:00 - 11:30 Coffee
 - 11:30 - 12:30 Round table: *"What has been achieved in the workshop?"*
 - 12:30 - 13:30
 - 13:30 - 15:30 Lunch