

Caltech

**Pacific Coast Gravity Conference  
Final Schedule**

**Date:** Friday and Saturday, March 3 and 4

**Place:** Room 201 East Bridge [note change from previously announced room and building], Caltech, Pasadena, CA

**Length of Talks:** Each speaker will be allotted twenty minutes (or less, if the speaker is willing!); there will be additional time after each talk for questions.

**FRIDAY MORNING.** Coffee, donuts, and informal discussion at 8:30 AM in Room 124, Bridge Annex; first talk begins at 9:00AM sharp; session ends at 10:45AM because of an 11:00AM class in the lecture room; lunch between 11:00AM and 12:15PM. Tentative chair: James Ipser.

Pawel Mazur, U. of Florida: *Instability of black holes in quantum gravity*

✧ James Isenberg, U of Oregon and UCSD: *On the velocity dominated conjecture and the nature of singularities in cosmological solutions*

Jonathan J. Halliwell, ITP - UCSB: *The contour of integration in quantum gravity*

David Eliezer, ITP - UCSB: *On the continuum limit of curvature-squared actions in the Regge calculus*

✧ Gary Horowitz, UCSB: *Topological field theories*

**FRIDAY AFTERNOON.** Session begins at 12:15PM; there will be two breaks during the long afternoon for informal discussion and refreshments. Tentative chairs: James Isenberg, Gary Horowitz, Abraham Taub.

Christopher Kochanek, Caltech: *Tidal disruption of stars by black holes*

✧ Saul Teukolsky, Cornell and ITP - UCSB: *Relativistic star clusters with arbitrarily large central redshifts*

Abraham H. Taub, UC Berkeley: *Collision of impulsive gravitational waves followed by dust clouds*

Steven Harris, Oregon State U.: *Conjectures on the causal boundaries and the topology of spacelike hypersurfaces*

Tevian Dray, Oregon State U.: *Conformal structure and duality*

✧ Jonathan Morrow-Jones, ITP - UCSB: *Proof of the cosmic no-hair conjecture*

Milan Mijic, UBC: *The cosmological constant*

Terry Tomboulis, UCLA: *Dynamical adjustment of the cosmological constant*

Soo-Jong Rey, UCSB - *No room for big spacetime wormholes*

Jose G. Vargas, U. of Alabama, Huntsville: *On using torsion to represent the electromagnetic field: A spontaneous, geometric unification of electrodynamics and gravitation*

✧ Kip S. Thorne, Caltech: *Traversable wormholes, time machines, and the averaged weak energy condition*

Gunnar Klinkhammer, Caltech: *The Cauchy problem in wormhole spacetimes with closed timelike curves*

**FRIDAY EVENING.** Dinner at the restaurant of your choice; after dinner (7:30 - 11:00) informal party and scientific discussions at the home of Kip Thorne, 672 Busch Garden Drive, Pasadena.

**SATURDAY MORNING.** Coffee and donuts at 8:30AM; session starts at 9:00AM and lasts until about 12:00. Tentative chairs: Saul Teukolsky and Carlton Caves.

Yekta Gürsel and Massimo Tinto, Caltech: *An optimal solution to the inverse problem for gravitational wave bursts*

Fernando Echeverria, Caltech: *Gravitational-wave measurements of the mass and angular momentum of a black hole*

Speaker to be announced, Caltech: *Gravitational-wave experiments at Caltech*

Doug Eardley, ITP - UCSB: *The optical pulsar in Supernova 1987A*

Joseph Weber, U. Maryland and UC Irvine: *The Rome-Maryland gravitational-wave antenna correlations with neutrino detectors at Mont Blank, Kamioka, and Baksan during the evolutionary phase of Supernova 1987A*

✶ Riley Newman, UC Irvine: *Recent results on possible fifth forces*

Timothy P. Krisher, JPL: *Radar time delay and anisotropic gravity*

✶ Ken Libbrecht, Caltech: *The solar oblateness and relativity*

**SATURDAY AFTERNOON.** Session begins about 1:30PM. Tentative chairs: Richard Price and Charles Evans.

✶ James Ipser, U. of Florida: *Pulsations of rapidly rotating stars*

Charles Evans, Caltech: *The eclipsing millisecond pulsar 1957+20*

Brian Punsley, UCLA: *Black-hole driven winds*

Christian Fronsdal, UCLA: *Black-hole physics, fact and fiction*

Leonard S. Abrams, Minimax: *Black holes or black points?*

Michael Reisenberger, Stanford: *A possible rescue of general relativity in DI Hercules*

Marcelo Gleiser, ITP - UCSB: *On scalar compact objects*

Robert Ferrell, ITP - UCSB: *Gravitational radiation from boson stars*