

**2nd ANNUAL WEST COAST "STEVENS" MEETING
ON GENERAL RELATIVITY**

UCEN Pavilion Room
University of California
Santa Barbara, CA 93106

Talks will be 15 minutes long, with ~ 5 minutes more for questions — except for Saturday morning, when talks will be ~ 20 minutes long.

Friday, February 14

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| 9:00 | | <i>(chaotic initial conditions)</i> |
| 9:10 | Ted Newman | <i>Quadratures for the Stationary-Axisymmetric Vacuum Einstein Equations</i> |
| 9:30 | Bob Wald | <i>Spin-2 Fields and General Covariance</i> |
| 9:50 | Emil Mottola | <i>Spontaneous Breaking of de Sitter Symmetry</i> |
| 10:10 | Arlen Anderson | <i>Exact Propagators in Symmetric Riemannian Spaces</i> |
| 10:30 | Break | |
| 11:00 | Kristin Schleich | <i>The Conformal Rotation in Linearized Gravity</i> |
| 11:20 | Bev Berger | <i>Gauge Fixing in Quantum Cosmology</i> |
| 11:40 | Warner Miller | <i>Null-Strut Geometrodynamics</i> |
| | Lunch | |
| 2:00 | Abhay Ashtekar | <i>Chirality and Helicity</i> |
| 2:20 | Lee Smolin | <i>Discrete Formulation of Abhay Ashtekar's Hamiltonian Constraints</i> |
| 2:40 | Ted Jacobson | <i>String Lessons for Quantum Gravity</i> |
| 3:00 | Andy Strominger | <i>The Superstring Equations and Their Solutions</i> |
| 3:20 | Break | |
| 3:50 | Kent Harrison | <i>Attempts to find Explicit Metrics for Calabi-Yau Spaces</i> |
| 4:10 | Arthur Fischer | <i>Geometric Approach to Deformation of Complex Structures</i> |
| 4:30 | Rafael Sorkin | <i>Conditions for Lorentzian Topology Change</i> |

Saturday, February 15

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| 9:00 | Sheryl Smith | <i>How to Search for Gravitational Radiation from Coalescing Binaries</i> |
| 9:30 | Peter Michelson | *** Cancelled due to Illness *** |
| 10:00 | M.E. Zucker | <i>The Caltech Interferometer</i> |
| 10:30 | Break | |
| 11:00 | Joe Weber | <i>Quantum Mechanics of Gravitational Antennas, and the Maryland Program</i> |
| 11:30 | Riley Newman | <i>Experimental Searches for Anomalies in Newtonian Gravitation</i> |
| 12:00 | Mark Haugen | <i>Local Lorentz Invariance: Significance of Recent Atomic Physics Experiments</i> |
| | Lunch | |
| 2:00 | Chuck Evans | <i>Axisymmetric Gravitational Collapse</i> |
| 2:20 | Sam Finn | <i>G-Mode Pulsations of Relativistic Stars: Slow Motion Formalism</i> |
| 2:40 | Jedrzej Śniatycki | <i>Vanishing of the Index of a Laplacian and Positivity of Energy</i> |
| 3:00 | Arkady Kheyfets | <i>Kaluza-Klein Theories and Positive Energy Theorems</i> |
| 3:20 | Break | |
| 3:50 | Steven Carlip | <i>Fermions from Solitons in Kaluza-Klein Theories</i> |
| 4:10 | Allen Creswell | <i>The Boundary of a Boundary Principle in Field Theories</i> |
| 4:30 | Mark Morris | <i>R² Inflation</i> |

First Announcement 12/16/85

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*February 14-15, 1986 (Friday and Saturday)
9:00 am - 5:30 pm*

After the successful "Stevens" meeting last winter at Caltech, many relativists felt that the tradition should be continued. This year's "Stevens Meeting" will be on the campus of the University of California at Santa Barbara. All are welcome.

Speakers: This is an open and informal meeting. The subject is general relativity, both theory and experiment. If you would like to give a brief talk, or would like to suggest a speaker, please write the organizing committee c/o D. Eardley & G. Horowitz, Department of Physics, UCSB. The speakers' list will be as open as possible; the only constraints are total time available, and breaks between the talks. Talks on experiment will begin with the Saturday morning session.

Travel: By car, Santa Barbara is two hours north of Los Angeles on Highway 101. UCSB is about ten miles north of downtown; the exit is UCSB (coming from the south) or Storke Road (coming from the north). Daily parking permits are available at the entrance to campus, and the attendant will direct you to the UCEN. By air, there are good connections and the airport is right next to UCSB.

Lodging: Local motels include the *Mountain View Inn*, 3055 De La Vina, Santa Barbara, CA 93105 (805/687-6636) with commercial rates starting at \$35 (single) and \$48 (double); and the *Sandman Inn*, 3714 State St., Santa Barbara, CA 93105 (805/687-2468) with commercial rates starting at \$58 (single) and \$63 (double). Please make your arrangements directly with the motels; reserve early. These motels are about 5 miles from UCSB; if you need a ride to/from UCSB, notify D. Eardley & G. Horowitz; we will try to arrange rides.

Financial Aid: No financial aid is available.

Organizing Committee: Carl Caves (Caltech, 818/356-4221), Doug Eardley (UCSB, 805/961-3979), Gary Horowitz (UCSB, 805/961-2742), Jim Isenberg (U. Oregon, 503/686-4715)