SCHEDULE FOR TWELFTH PACIFIC COAST GRAVITY MEETING
FRIDAY MARCH 22 AND SATURDAY MARCH 23, 1996
ROOM JFB103, DEPARTMENT OF PHYSICS, U. OF UTAH

FRIDAY

SESSION I: Jiri Bicak

8:30am Welcome

8:45am David Craig, UC Santa Barbara — ''The geometry of decoherence: decohering histories in generalized quantum theory''

9:00am John T. Whelan, UC Santa Barbara — ''Modeling the decoherence of spacetime''

9:15am Jorge Pullin, Penn State — ''Knot theory and quantum gravity: the connection deepens''

9:30am S. Frittelli, C. Kozameh, T. Newman, C. Rovelli and R. S. Tate, Presenter: Ranjeet S. Tate, U. of Pittsburgh — ''Fuzzy spacetime from quantum gravity''

9:45am Thomas Thiemann, Harvard University — ''Quantum spin dynamics (QSD)''

10:00am Alejandro Corichi and Michael P. Ryan, Jr., Presenter: Michael Ryan, U. Autonoma de Mexico — ''Quantization of nonstandard Hamiltonian systems''

COFFEE BREAK: 10:15-10:45am

SESSION II: Gary Horowitz

10:45am Tevian Dray, Oregon State Univ. — ''Einstein's equations in the presence of signature change''

11:00am Donald Marolf, UC Santa Barbara — ''Interpolating between topologies: Casimir energy''

11:15am Jorma Louko and Rafael D Sorkin, Presenter: Jorma Louko, University of Maryland — ''Complex actions in two-dimensional topology change''

11:30am J.B. Hartle, W. Miller and R. Williams, Presenter: J.B. Hartle, UC Santa Barbara — ''Signature of the simplicial supermetric''

11:45am Carmen Molina-Paris, University of Texas — ''Geometric effective action: Yang-Mills and Fermionic fields''

LUNCH: 12:00-1:30pm

SESSION III: Niall O' Murchadha

1:30pm Gary Horowitz, UC Santa Barbara — ''The origin of black hole entropy in string theory''

1:45pm Madhavan Varadarajan, University of Utah — ''Quantizing dilatonic black holes''

2:00pm Andrew Chamblin, ITP Santa Barbara — ''Nucleating black holes via non-orientable instantons''

2:15pm Warner Miller, Los Alamos National Lab — ''gravitomagnetism in astrophysics''

2:30pm Frank B. Estabrook and R. Steve Robinson, Presenter: Frank Estabrook, JPL — ''Exterior differential system for test strings in Ricci-flat spacetime''

2:45pm James Isenberg, University of Oregon — ''Lots more nonconstant mean curvature solutions on compactmanifolds''

3:00pm Jiseong Park, University of Oregon — ''Non-constant mean curvature 'hyperboloidal' solutions of the Einstein constraint equations''

COFFEE BREAK 3:15-3:45

SESSION IV: William Hiscock

3:45pm David Brown, North Carolina State — ''Material reference systems in classical and quantum gravity''

4:00pm Joseph D. Romano and Charles Torre, Presenter: Joseph D. Romano, U. of Wisconsin-Milwaukee — ''Internal time formalism for spacetimes with two killing vectors''

4:15pm Niall O' Murchadha, Univ. College, Cork — ''Slicing the Schwarzschild solution''

4:30pm Pawel O. Mazur, Emil Mottola, and Ignatios Antoniadis, Presenter: Emil Mottola, Los Alamos National Lab — ''Quantum diffeomorphisms and conformal symmetry''

4:45pm Balraj Menon, Charles Torre, Presenter: Balraj Menon, Utah State University — ''Generalized symmetries and local conservation laws of the two Killing vector-reduced Einstein equations''

5:00pm Ian Anderson, Balraj Menon, and Charles Torre, Presenter: Charles Torre, Utah State University — ''A new spacetime approach to conservation laws in general relativity''

5:15pm Corinne Manogue, Oregon State University — ''When do rotating detectors respond?''

5:30pm James Wheeler, Utah State University — ''A new gauging of the conformal group''

5:45pm Rhett Herman, Montana State University — ''Current results in point-splitting"

6:00pm Glenn Barnich, Jorge Pullin and Thorsten Schwander, Presenter: Thorsten Schwander, Penn State — ''Perturbative evaluation of exotic knot polynomials''

6:15pm Eric Hirschmann, UC Santa Barbara — ''Gravitational collapse of a nonlinar sigma model''

ENDS AT 6:30pm

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BANQUET
7:30pm
University Park Hotel
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SATURDAY

SESSION V: Michael Ryan

8:30am Brett Taylor and Bill Hiscock
Presenter: Brett Taylor
Montana State University
''Stress-energy of quantized scalar fields in wormhole spacetimes''

8:45am Tsunefumi Tanaka
Montana State University
''Classical thermodynamic process in a nonchronal region''

9:00am Seth Rosenberg
UC Santa Baraba
''Testing causality violations in spacetimes with closed timelike curves''

9:15am William A. Hiscock
Montana State University
''Magnetically charged extreme black holes''

9:30am Daniel J. Loranz
Montana State University
''Approximate expectation values for the stress energy of string inspired extreme black holes''

9:45am Shane L. Larson, William A. Hiscock, Paul R. Anderson
Presenter: Shane L. Larson
Montana State University
''Semiclassical effects in black hole interiors''

10:00am Viqar Husain
Penn State
''Interpolating black holes''

10:15am M. Campanelli and C. Lousto
Presenter: Carlos Lousto
University of Utah
''Exact gravitational shock wave solutions in higher order theories''

COFFEE: 10:30-11:00

SESSION VI: Beverly Berger

11:00am Shawn Kolitch
UC Santa Barbara
''A wave equation for spherical domain walls''

11:15am Chris M. Chambers
Montana State University
''Cauchy horizons...the final frontier?''

11:30am Fintan Ryan
CalTech
"Spinning boson stars with large self-interaction"

11:45am Kip Thorne
CalTech
''Low-frequency noise in LIGO''

12:00n Paul Anderson
Wake Forest University
''Gravitational geons revisited''

LUNCH: 12:15-1:45

SESSION VII: Lee Lindblom

1:45pm J. W. Armstrong. B. Bertotti, F. B. Estabrook, L. Iess, and H. D. Wahlquist
Presenter: J. W. Armstrong
JPL
''The Galileo/Mars Observer/Ulysses Low-frequency coincidence experiment''

2:00pm Teviet Creighton
CalTech
''Searching for periodic sources with LIGO''

2:15pm Eanna Flanagan and Scott Hughes
Presenter: Scott Hughes
CalTech
''How much can we learn from gravitational wave observations of merging binary black holes?''

2:30pm Yuri Levin
CalTech
''Speed meter as a quantum nondemolition measuring device for Force''

2:45pm Benjamin Owen
CalTech
''Matched filtering to detect gravitational waves from inspiraling binaries: genetic algorithms vs. brute force''

3:00pm Eric Poisson
University of Guelph
''Using gravitational-wave data from spaceborne interferometers to test general relativity''

COFFEE: 3:15-3:45pm

SESSION VIII: Bryce DeWitt

3:45pm Lee Lindblom
Montana State University
''Gravitational helioseismology?''

4:00pm Alan Wiseman
CalTech
''Post Newtonian calculations of gravitational wave generation''

4:15pm Beverly K. Berger
Oakland University
''New numerical algorithm for mixmaster dynamics''

4:30pm Patrick Brady
CalTech
''Black hole singularities: a numerical approach''

4:45pm Richard Price
University of Utah
''Computing binary coalescence templates: preliminary notions''

ENDS AT 5:00pm

SCHEDULE FOR KKFEST
THURSDAY, MARCH 21, 1996
JFB B1 University of Utah

9:00am	OPENING REMARKS	
9:10am	Jiri Bičák Charles University	"Radiative spacetimes: exact approaches"
10:15am	COFFEE BREAK	
10:35am	Bryce DeWitt Univ. of Texas	"Gauge theory without ghosts?"
11:40am	Petr Hájíček Univ. of Berne	"Functional Schroedinger equation within a reduction method"
12:45-2:15pm	LUNCH	
2:15pm	James B. Hartle UC Santa Barbara	"Generalized quantum theory and the problem of time"
3:20pm	COFFEE BREAK	
3:40pm	Claudio Teitelboim CECS, Santiago, and IAS, Princeton	"Statistical thermodynamics of a black Hole in terms of surface fields"
4:45pm	James W. York, Jr. U. North Carolina	"Separating the wheat from the chaff in the Cauchy problem"
5:50pm	END	