Loops´17 conference programme

Monday			
08:30-08:50	Registration		
08:50-09:00	Opening		
09:00-09:35	Thomas Thiemann: *Review Talk on Canonical Loop Quantum Gravity*		
09:35-10:10	Yongge Ma: *Recent advances on the Hamiltonian constraint operator in LQG*		
Coffee break 15 min			
10:25-11:00	Carlo Rovelli: *How to compute a realistically observable quantity in LQG: the black hole lifetime*		
11:00-11:35	Daniele Oriti: *Group field theory: where from and where to*		
Break 15 min			
11:50-12:25	Edward Wilson-Ewing: *Testing loop quantum cosmology*		
12:25-13:00	Daniele Pranzetti: *New boundary degrees of freedom*		
Lunch break 1 h 30 min			
Single session	Quantum models of black holes/Quantum cosmology		
14:30-14:50	R. Gambini: *Quantum fluctuating geometries and the information paradox*		
14:50-15:10	H. Haggard: *Complex Quantum Tunneling and the Decay of Black Holes*		
15:10-15:30	G. Mena Marugán: *Fermions in hybrid loop quantum cosmology*		
15:30-15:50	M. Martin-Benito: *Dirac fields in cosmology: unitary dynamics as a uniqueness quantization criterion*		
Coffee break 15 min			
Parallel sessions	Quantum cosmology 0.03	Foundations and Mathematical aspects of gravity theories 0.06	
16:05-16:25	I. Vilensky	R. Seeger	
16:25-16:45	F. Mercati	M. Raasakka	
16:45-17:05	D. Sloan	F. Hopfmueller	
17:05-17:25	S. Gryb	Y. Herfray	
Break 15 min			
Parallel sessions	Quantum gravity phenomenology 0.03	Quantum models of black holes 0.03a	Quantum constraints and dynamics 0.06
17:40-18:00	J. Mielczarek	Y. Yokokura	V. Belov
18:00-18:20	A. Dubey	M. Christodoulou	M. Finocchiaro
18:20-18:40	A. K. Held	K. Eder	M. Fanizza
18:40-19:00			I. Kanatchikov

Tuesday			
08:30-09:00	Registration		
09:00-09:35	William Donnelly: *Diffeomorphism invariance and the flat space limit*		
09:35-10:10	Laurent Freidel: *Edge modes, symmetry and subsystems in Gauge theories*		
Coffee break 15 min			
10:25-11:00	Bianca Dittrich: *Bootstrapping quantum gravity*		
11:00-11:35	Sylvain Carrozza: *Spin foam renormalization à la GFT: status and prospects*		
Break 15 min			
11:50-12:25	Emanuele Alesci: *QRLG, Statistical Regularization and the Bounce*		
12:25-13:00	Maximilian Hanusch: *Relating LQC with LQG: Algebraic Aspects*		
Lunch break 1 h 30 min			
Single session	Renormalization and continuum limit/Quantum cosmology		
14:30-14:50	B. Bahr: *Renormalization group flow in truncated spin foam models*		
14:50-15:10	N. Bodendorfer: *Coarse graining and LQC*		
15:10-15:30	J. Engle: *Uniqueness of the kinematical Hilbert space of LQC with curved edges*		
15:30-15:50	A. Wang: *Pre-inflationary universe in loop quantum cosmology*		
Coffee break 15 min			
Parallel sessions	Quantum models of black holes 0.03	Quantum constraints and dynamics 0.06	
16:05-16:25	W. Cuervo	C. Charles	
16:25-16:45	T. De Lorenzo	K. Liegener	
16:45-17:05	T. Zilker	J. Sikorski	
17:05-17:25	A. Marciano	E. De Paoli	
Break 15 min			
Parallel sessions	Quantum cosmology 0.03	Renormalization and continuum limit 0.03a	Quantum geometry and observables 0.06
17:40-18:00	K. Martineau	G. Rabuffo	F. Girelli
18:00-18:20	G. Sarno	S. K. Asante	C. Delcamp
18:20-18:40	A. Pithis	F. Versteegen	P. Drobinski
18:40-19:00	M. de Cesare	S. Rastgoo	I. Mäkinen

Wednesday	
08:30-09:00	Registration
09:00-09:35	Herman Verlinde: *Strings and Loops: What can they learn from each other?*
09:35-10:10	Marc Geiller: *New representations for quantum gravity*
Coffee break 15 min	
10:25-11:00	Etera Livine: *Dressed Spin Networks: from Coarse-Graining to Holography in Loop Quantum Gravity*
11:00-11:35	Mehdi Assanioussi: *On the dynamics of LQG deparametrized models: a perturbative approach*
Break 15 min	
11:50-12:25	Simone Speziale: *LQG: a twistorial perspective*
12:25-13:00	Wolfgang Wieland: *New boundary variables for classical and quantum gravity*
Break	
14:00-17:00	Loops Football Cup
20:00-23:00	Conference dinner

Thursday			
08:30-09:00	Registration		
09:00-09:35	James Sully: *Loop Equations for Gauge/Gravity Duality*		
09:35-10:10	Nelson Yokomizo: *Squeezed spin networks and entanglement*		
Coffee break 15 min			
10:25-11:00	Francesca Vidotto: *How to measure a realistically observable quantity in LQG: primordial black holes*		
11:00-11:35	Parampreet Singh: *Black hole bounce*		
Break 15 min			
11:50-12:25	Daniel Martín de Blas: *Hybrid LQC: choice of vacuum state for cosmological perturbations in LQC*		
12:25-13:00	Andrea Dapor: *Rainbow metrics and effective cosmological models*		
Lunch break 1 h 30 min			
Single session	Quantum gravity phenomenology/Quantum geometry and observables		
14:30-14:50	V. Husain: *Low energy Lorentz violation from modified dispersion at high energies*		
14:50-15:10	S. Brahma: *Deformation of classical spacetimes in loop quantum gravity*		
15:10-15:30	K. Giesel: *Cosmological Perturbation Theory with Geometrical Clocks*		
15:30-15:50	C. Lin: *Quantum reference frames: application in FRW LQC*		
Coffee break 15 min			
Parallel sessions	Foundations and Mathematical aspects of gravity theories 0.03	Quantum geometry and observables 0.06	Quantum gravity phenomenology 0.03a
16:05-16:25	M. Kolanowski	A. Oelman	C. Pfeifer
16:25-16:45	P. Osei	L. Hackl	G. Rosati
16:45-17:05	D. Siemssen	F. Hinterleitner	N. Loret
17:05-17:25	A. Addazi	C. Goeller	T. Trześniewski
Break			
18:00-19:30	Public lecture by C. Rovelli: "What is time?"		

Friday

08:30-09:00	Giovanni Amelino-Camelia: *Probing quantum-spacetime structure with GRB photons and neutrinos*		
09:00-09:35	Marcin Kisielowski: *Asymptotic analysis of the EPRL spin-foam model with timelike tetrahedra*		
09:35-10:10	Sebastian Steinhaus: *Renormalizing spin foam models: quantum cuboids and beyond*		
Coffee break 15 min			
10:25-11:00	Tatjana Vukasinac: *2D dilaton gravity theories in polar-type variables: A review of some classical and quantum results*		
11:00-11:35	Steffen Gielen: *Cosmology from group field theory condensates*		
Break 15 min			
11:50-12:25	Aldo Riello: *Entanglement entropies in 3d gauge theories and quantum gravity*		
12:25-13:00	Goffredo Chirco: *Group field theory and tensor networks: holographic entanglement entropy in full quantum gravity*		
Lunch break 1 h 30 min			
Single session	Quantum cosmology/Quantum constraints and dynamics/Foundations and Mathematical aspects of gravity theories		
14:30-14:50	E. Bianchi: *Emergence of space-like correlations in loop quantum gravity*		
14:50-15:10	J. Olmedo: Perturbations in anisotropic loop quantum cosmology spacetimes		
15:10-15:30	P. Dona: *Computing Lorentzian spin foam amplitudes: Overview*		
15:30-15:50	S. Lanéry: *Projective State Spaces for Quantum Field Theory and Quantum Gravity*		
Coffee break 15 min			
Parallel sessions	Quantum cosmology 0.03		Quantum geometry and observables 0.06
16:05-16:25	C. Beetle		J. Thüringen
16:25-16:45	P. Mendonca		J. Rennert
16:45-17:05	J. Bilski		Z. Huang
17:05-17:25	G. V. Stagno		M. Zhang
Break 15 min			
Parallel sessions	Quantum cosmology 0.03	Quantum geometry and observables 0.03a	Foundations and Mathematical aspects of gravity theories 0.06
17:40-18:00	J. Ben Achour	M. Vojnovic	I. Kotecha
18:00-18:20	A. Osumanu	A. Kegeles	P. Martin-Dussaud
18:20-18:40	J. Bunao		C. I. Perez Sanchez
18:40-19:00	T. Pawlowski		T. Vukasinac