

Third EFI winter conference on quantum gravity

February 16 – 20, 2015

Tux, Austria

Draft program, Feb 14



UNIWERSYTET
WARSZAWSKI



FRIEDRICH-ALEXANDER
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EMERGING
FIELDS
INITIATIVE

Startup dinner: Sunday, Feb 15, 18:30, in "Tuxer Grillkuchl", Lanersbach 381.

	Monday	Tuesday	Wednesday	Thursday	Friday
13:30-14:10	Piotr Sulkowski: <i>Chern-Simons theory and quantum enumerative geometry</i>	Mehdi Assanioussi: <i>Construction of a hamiltonian operator in LQG</i>	Beatriz Elizaga: <i>Effective homogeneous and isotropic scenarios emerging from states of the hybrid Gowdy model</i>	Maciej Dunajski: <i>Non-relativistic twistor theory and Newton-Cartan geometry</i>	Giuseppe Sellaroli: <i>Spinor operators in 3D Lorentzian gravity</i>
14:10-14:50	Muxin Han: <i>Chern-Simons Theory, Flat Connections and 4d Quantum Geometry</i>	Marcin Kisielowski: <i>First-order Dipole Cosmology</i>	Guillermo Mena Marugan: <i>Mukhanov-Sasaki equations in Loop Quantum Cosmology</i>	John Schliemann: <i>Coherent Quantum Dynamics: What Fluctuations Can Tell</i>	Ilkka Mäkinen: <i>Coherent state operators in loop quantum gravity</i>
14:50-15:10	Discussion (20 min)				
15:10-15:30	Coffee Break (20 min)				
15:30-16:10	Ivan Agullo: <i>Phenomenological consequences of LQC</i>	Tomasz Pawłowski: <i>Interfacing loop quantum gravity with cosmology</i>	Edward Wilson-Ewing: <i>A Lambda-CDM Bounce Scenario</i>	Andrzej Dragan: <i>Ideal clocks - convenient fiction</i>	Goffredo Chirco: <i>Statistical mechanics for general covariant systems</i>
16:10-16:50	Martin Ammon: <i>Recent developments in AdS/CFT and higher spin gravity</i>	Jorge Pullin: <i>Recent results in spherically symmetric LQG</i>	Mercedes Martin-Benito: <i>More information about the early Universe than meets the eye</i>	Carlo Rovelli: <i>Can we test quantum gravity with black hole explosions?</i>	Benjamin Bahr: <i>Background-independent renormalization in Spin Foam models</i>
16:50-17:10	Discussion (20 min)				
17:10-17:30	Coffee Break (20 min)				
17:30-18:10	Maite Dupuis: <i>Towards the Turaev-Viro amplitudes from a Hamiltonian constraint</i>	Maximilian Hanusch: <i>Symmetry Actions and Invariance Conditions in LQG</i>	Xiangdong Zhang: <i>Loop quantum cosmology in 2+1 dimensions</i>	Simone Speziale: <i>First order gravity on the light front</i>	Wolfgang Wieland: <i>New action for simplicial gravity: Curvature and relation to Regge calculus</i>
18:10-18:50	Florian Girelli: <i>The Turaev-Viro amplitude from a Hamiltonian constraint, Part 2.</i>	Jedrzej Swiezewski: <i>Radial gauge - reduced phase space of General Relativity</i>	Discussion	Lacina Kamil: <i>The problem of time in background independence</i>	Andrea Dapor: <i>Rainbows from Quantum Gravity</i>
18:50-19:30	Francesca Vidotto: <i>The compact phase space of Loop Quantum Gravity</i>	Norbert Bodendorfer: <i>A quantum reduction to Bianchi I models in LQG</i>	Conference Dinner 19.00, Bergfriedalm Lanersbach 475	Marc Geiller: <i>Flux formulation of loop quantum gravity</i>	Saeed Rastgoo: <i>Polymerization and saddle point approximation issues in dilatonic black holes: a toy model</i>
19:30-20:00	Discussion	Discussion		Discussion	Discussion