6ᵗʰ Tux Workshop on Quantum Gravity

February 19 – 23, 2018

Tux, Austria

Program, Feb 20

UNIWERSYTET WARSZAWSKI

FAU FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG

UNIVERSITÄT PADERBORN
Die Universität der Informationsgesellschaft

UR Universität Regensburg

	Monday	Tuesday	Wednesday	Thursday	Friday
13:30-14:10	*Jorge Pullin* Mandelstam's "Quantization of the Gravitational Field" revisited	*Christophe Goeller* Holographic dualities in 3D quantum gravity based on the Ponzano-Regge model	*Jose Zapata* Gauge from holography	*Ilkka Makinen* A coherent-state representation for the LQG intertwiner space	*Patryk Drobinski* Continuum approach to the BF vacuum
14:10-14:50	*Maciej Dunajski* Geometry and dynamics of vortices	*Maciej Kolanowski* Holographic models for 2-dimensional black holes	*Wolfgang Wieland* Quantum gravity in three dimensions, Witten spinors and the quantisation of length	*Mehdi Assanioussi* On the polymer quantization of Yang-Mills theories: new coherent states	*Fabio Mele* Quantum Fisher Information Metric, Entanglement and Spin Networks
14:50-15:20	Coffee Break (30 min)				
15:20-16:00	*Klaus Liegener* Hamiltonian Renormalization	*Deepak Vaid* Connecting Loop Quantum Gravity and String Theory via Quantum Geometry	*Piotr Sulkowski* Quantum geometry and string dualities	*Konstantin Eder* Quantum theory of charged isolated horizons	*Cong Zhang* Some analytical results of the Hamiltonian (constraint) operator in LQG
16:00-16:40	*Andrzej Dragan* Massive Unruh particles cannot be observed directly	*Yaser Tavakoli* Particle production in a cosmological quantum space-time	*Simone Speziale* Sachs' constraint-free data in real connection variables	*Andrea Dapor* From LQG to Cosmology: a new LQC	*Johannes Münch* Holographic signatures of resolved cosmological singularities: Numerical investigations
16:40-17:10	Coffee Break (30 min)				
17:10-17:50	*Daniel Siemssen* Solving the Semiclassical Einstein Equation	*Jerzy Lewandowski* Petrov type D isolated null surfaces	*General discussion*	*Guillermo Mena Marugán* The mass of cosmological perturbations in the hybrid and dressed metric approaches to Loop Quantum Cosmology	*Wojciech Kaminski* QFT in curved spacetime: new insights
17:50-18:30	*Sebastian Steinhaus* Spectral dimension of cuboid spin foams	*Denis Dobkowski-Rylko* Geometric characterization of the Kerr-de Sitter horizon	18:30: Joint walk to Höllensteinhütte, starting at conference venue	*Tomasz Pawlowski* Emergent de Sitter phase of LQC	*Antonia Zipfel* A new perspective on the graviton propagator
18:30-End	*General discussion*	*General discussion*	Conference Dinner 19:15, Höllensteinhütte, Lanersbach 510 (far!)	*General discussion*	*General discussion*

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