

Program

Sunday, June 17, 2018

17:00 – 21:00 Registration

18:00 *BUFFET SUPPER and get-together*

Monday, June 18, 2018

08:00 *BREAKFAST*

08:50 – 09:00 Scientific organizers **Welcome & Opening**

09:00 – 09:35 Christof Wetterich **Graviton fluctuations erase the cosmological constant**

09:35 – 10:10 Martin Reuter **Entanglement entropy, asymptotic safety and the background fractal**

10:10 – 10:45 Benjamin Bahr **Exploring the RG flow of truncated spin foam models**

10:45 – 11:15 *COFFEE & TEA*

11:15 – 11:50 Tim Koslowski **Optimizing the FRGE in matrix and tensor models**

11:50 – 12:25 Jack Laiho **Euclidean dynamical triangulations**

12:25 – 12:35 **Conference photo** (in the front of the lecture hall)

12:35 *LUNCH (followed by coffee and/or tea)*

Program

Monday, June 18, 2018

14:30 – 15:30	Andrei Barvinsky	Renormalization of gauge theories in the background-field approach
15:30 – 16:05	Stefan Lippoldt	Renormalized functional renormalization group
16:05 – 16:35	COFFEE & TEA	
16:35 – 17:10	Poster flash talks	
17:10 – 18:00	Poster session	
18:30	DINNER	

Program

Tuesday, June 19, 2018

08:00	BREAKFAST	
09:00 – 10:00	N. Emil J. Bjerrum-Bohr	General relativity from particle scattering
10:00 – 10:35	Jan M. Pawłowski	On asymptotic safety in matter-gravity systems
10:35 – 11:05	COFFEE & TEA	
11:05 – 11:40	Dario Ambjorn	Field renormalization in QG
11:40 – 12:15	Bianca Dittrich	Bootstrapping quantum gravity
12:15 – 12:50	Discussion	
12:50	LUNCH (followed by coffee and/or tea)	
14:30 – 15:30	Kellogg Stelle	Black holes in higher derivative gravity
15:30 – 16:05	Alessia Platania	Towards self-consistent black hole solutions in asymptotically safe gravity
16:05 – 16:35	COFFEE & TEA	
16:35 – 18:00	New collaborations	
18:00 – 19:00	Poster session	
19:00	DINNER	

Program

Wednesday, June 20, 2018

08:00	BREAKFAST	
09:00 – 10:00	Stefan Weinzierl	Amplitudes in Yang-Mills theory and gravity
10:00 – 10:35	Sylvain Carrozza	Large N fermionic tensor models in $d = 2$
10:35 – 11:05	COFFEE & TEA	
11:05– 11:40	Tim Morris	Perturbatively renormalizable quantum gravity
11:40 – 12:15	Senarath de Alwis	Exact RG flow equations and quantum gravity
12:15 – 12:50	Carlo Pagani	Scaling properties of geometric operators in the asymptotic safety scenario for quantum gravity
12:50	LUNCH (followed by coffee and/or tea)	
14:30 – 18:00	Excursion	
18:00	DINNER	

Program

Thursday, June 21, 2018

08:00	BREAKFAST	
09:00 – 10:00	Gudrun Hiller	Directions for model building from asymptotic safety
10:00 – 10:35	Francesco Sannino	Charting fundamental interactions
10:35 – 11:05	COFFEE & TEA	
11:05– 11:40	Holger Gies	Curvature bound from gravitational catalysis
11:40 – 12:15	Judah Unmuth-Yockey	Geometric fermions and lattice gravity
12:15 – 12:50	Daniel Litim	Asymptotic safety of gauge theories
12:50	LUNCH (followed by coffee and/or tea)	

Program

Thursday, June 21, 2018

14:30 – 15:00	Benjamin Knorr	Towards reconstructing the quantum effective action of gravity
15:00 – 15:30	Aaron Held	The status of asymptotic safety for quantum gravity and the standard model
15:30 – 16:05	Alfio Maurizio Bonanno	The final state of BH evaporation in AS
16:05 – 16:35	COFFEE & TEA	
16:35 – 17:10	Joseph Ben Geloun	A renormalizable SYK-type tensor field theory
17: 10 – 17:25	Stefan Jorda	About the Wilhelm and Else Heraeus Foundation
17:25 – 19:00	Discussion & new collaborations	
19:00	<i>HERAEUS DINNER</i> (social event with cold & warm buffet and complimentary drinks)	

Program

Friday, June 22, 2018

08:00	BREAKFAST	
09:00 – 09 :35	Daniele Oriti	The continuum limit of discrete quantum gravity via group field theory renormalization
09:35 – 10:10	Renate Loll	Quantum gravity and the quest for observables
10:10 – 10:45	Roberto Percacci	Gravity with less or more variables
10:45 – 11:15	COFFEE & TEA	
11:15– 12:15	Two poster prize talks	
12:15 – 12:45	Roadmap: Fundamental aspects	
12:45 – 13:15	Roadmap: Phenomenological implications	
13:15 – 13:30	Scientific organizers	Closing
13:30	LUNCH (followed by coffee and/or tea)	

End of the seminar and departure

NO DINNER for participants leaving on Saturday morning