

Program

Sunday, July 29, 2018

17:00 – 21:00 Registration

from 18:30 *BUFFET SUPPER / Informal get together*

Monday, July 30, 2018

08:00 *BREAKFAST*

08:45 – 09:00 Scientific organizers **Opening and welcome**

09:00 – 10:00 Gerardus 't Hooft **Past and future of gauge theory**

10:00 – 11:00 Christof Wetterich **Scale symmetry in particle physics and cosmology**

11:00 – 11:30 *COFFEE BREAK*

11:30 – 12:30 Friedrich Hehl **The conserved energy-momentum current of matter as the basis for the gauge theory of gravitation**

12:30 **Conference Photo** (in front of the historical building)

12:45 *LUNCH*

Program

Monday, July 30, 2018

14:30 – 15:30	Norbert Straumann	Hermann Weyl's space-time geometry and the origin of gauge theory 100 years ago
15:30 – 16:30	Erhard Scholz	Gauging the spacetime metric - looking back and forth a century later
16:30 – 17:00	COFFEE BREAK	
17:00 – 17:15	Stefan Jorda	About the Wilhelm and Else Heraeus-Foundation
17:15 – 18:15	Poster flash presentations	
19:00	DINNER	

Program

Tuesday, July 31, 2018

08:00	BREAKFAST	
09:00 – 10:00	Alexander Blum	The early history of the connection between gauge theory and renormalizability
10:00 – 11:00	Jeremy Butterfield / Sebastian De Haro	On gauge, symmetry and duality
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Dennis Dieks	Hermann Weyl and objectivity (and gauge)
12:45	LUNCH	
14:30 – 15:30	Gabriel Catren	Steps towards an ontological interpretation of gauge symmetries
15:30 – 16:30	Thomas Ryckman	Weyl, gauge invariance and symbolic construction from the 'purely infinitesimal'
16:30 – 17:00	COFFEE BREAK	
17:00 – 18:00	Dennis Lehmkuhl	Geodesics in general relativity and in Weyl geometry
18:00 – 19:00	Poster session I	
19:00	DINNER	

Program

Wednesday, August 1, 2018

08:00 *BREAKFAST*

09:00 – 10:00 Thomas Schücker **The gauge theoretical underpinnings of
general relativity**

10:00 – 11:00 Silvia De Bianchi **Weyl's Raum-Zeit-Materie and the
Philosophy of Science**

11:00 – 11:30 *COFFEE BREAK*

11:30 – 12:30 Hans-Peter Nilles **Gauge symmetries and CP-violation**

12:45 *LUNCH*

14:30 – 18:30 **Excursion** (boat trip to Linz on the river Rhine)

19:00 *DINNER*

Program

Thursday, August 2, 2018

08:00	BREAKFAST	
09:00 – 10:00	Johanna Stachel	Experimental tests of gauge theories: The QCD phase diagram at high temperature
10:00 – 11:00	Laura Covi	Gauge fields in cosmology
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Christian Steinwachs	Higgs field in cosmology
12:45	LUNCH	
14:30 – 15:30	Francesca Vidotto	Loop quantum gravity: A general- covariant lattice gauge theory
15:30 – 16:30	Elise Crull	Neo-Kantian quantum gravity
16:30 – 17:00	COFFEE BREAK	
17:00 – 18:00	Claus Kiefer	Space, time, matter in quantum gravity
18:00 – 19:00	Poster session II	
19:00	<i>HERAEUS DINNER at the Physikzentrum (cold & warm buffet, free beverages)</i>	

Program

Friday, August 3, 2018

08:00 BREAKFAST

09:00 – 11:00 **Podium discussion**

11:00 – 11:30 COFFEE BREAK

11:30 – 12:30 Scientific organizers **Poster awards, summary and
closing remarks**

12:45 LUNCH

End of the seminar and FAREWELL COFFEE / Departure

Please note that there will be **no** dinner at the Physikzentrum on Friday evening for participants leaving the next morning.