

Fachverband Gravitation und Relativitätstheorie (GR)

Domenico Giulini
 ZARM Bremen and
 Institute for Theoretical Physics
 Leibniz University Hannover
 Appelstraße 2
 30167 Hannover
 giulini@itp.uni-hannover.de

This year's focus-topic of our division is the still insufficiently understood relation between Quantum Theory and General Relativity. Together with the divisions *Particle Physics*, *Theoretical and Mathematical Physics*, and the working group *Philosophy of Physics* we will have a symposium on this topic with four talks by renowned experts in their respective fields. The focus-topic is also reflected by the global structure of the whole programme, which allows a little more than average space to the discussion of related issues. In addition, we will have a joint session with the division *Theoretical and Mathematical Physics* on aspects of classical and quantum gravity.

Übersicht der Hauptvorträge und Fachsitzungen

(Hörsäle VMP6 HS A und VMP6 HS C; Poster VMP6 Foyer)

Hauptvorträge

GR 1.1	Mo	9:00– 9:45	VMP6 HS A	Time Dilation in Quantum Systems and Decoherence — ●CASLAV BRUKNER
GR 1.2	Mo	9:45–10:30	VMP6 HS A	Semiclassical Einstein equation — ●RAINER VERCH
GR 2.1	Mo	11:00–11:40	VMP6 HS A	Dynamics of Loop Quantum Gravity — ●KRISTINA GIESEL
GR 5.1	Di	13:45–14:25	VMP6 HS A	Static vacuum photon spheres have no hair — ●CARLA CEDERBAUM
GR 6.1	Di	16:45–17:25	VMP6 HS A	A No-Hair Theorem for Astrophysically Relevant Black Holes — ●NORMAN GÜRLEBECK
GR 7.1	Mi	16:45–17:25	VMP6 HS A	Back in the saddle: Large-deviation statistics of the cosmic log-density field — ●CORA UHLEMANN
GR 11.1	Do	13:45–14:25	VMP6 HS A	Fresnel-Kummer wave surfaces in transparent (meta)materials, the Kummer tensor in general relativity, and beyond — ALBERTO FAVARO, ●FRIEDRICH W. HEHL
GR 11.2	Do	14:25–15:05	VMP6 HS A	Influence of a plasma on gravitational lensing by compact objects — ●VOLKER PERLICK

Hauptvorträge des fachübergreifenden Symposiums SYQG

Das vollständige Programm dieses Symposiums ist unter SYQG aufgeführt.

SYQG 1.1	Mi	13:30–14:10	VMP4 Audimax 1	Quantum Tests of Gravity — ●MARKUS ASPELMEYER
SYQG 1.2	Mi	14:10–14:50	VMP4 Audimax 1	A Practitioner's View on Quantum Gravity — ●RENATE LOLL
SYQG 1.3	Mi	14:50–15:30	VMP4 Audimax 1	Standard Model Fermions and N=8 Supergravity — ●HERMANN NICOLAI
SYQG 1.4	Mi	15:30–16:10	VMP4 Audimax 1	Quantum and gravity: blend or mélange? — ●CHRISTIAN WÜTHRICH

Fachsitzungen

GR 1.1–1.2	Mo	9:00–10:30	VMP6 HS A	Quantum (Field) Theory and Gravity
GR 2.1–2.3	Mo	11:00–12:20	VMP6 HS A	Quantum Gravity I
GR 3.1–3.7	Mo	16:45–19:05	VMP6 HS A	Quantum Gravity II
GR 4.1–4.4	Di	8:30–10:30	VMP6 HS A	Mathematical Aspects of Classical and Quantum Gravity (with MP)
GR 5.1–5.7	Di	13:45–15:55	VMP6 HS A	Classical General Relativity I
GR 6.1–6.6	Di	16:45–19:05	VMP6 HS A	Black Holes and other Black Objects
GR 7.1–7.6	Mi	16:45–19:05	VMP6 HS A	Cosmology
GR 8.1–8.13	Mi	17:30–19:00	VMP6 Foyer	Poster
GR 9.1–9.4	Do	8:30– 9:50	VMP6 HS A	Quantum Cosmology
GR 10.1–10.5	Do	11:00–12:40	VMP6 HS A	Relativistic Astrophysics
GR 11.1–11.6	Do	13:45–16:05	VMP6 HS A	Classical General Relativity II
GR 12.1–12.5	Do	13:45–15:25	VMP6 HS C	Alternative Theories
GR 13.1–13.7	Do	16:45–19:05	VMP6 HS A	Quantum Gravity III
GR 14.1–14.3	Do	16:45–17:45	VMP6 HS C	Experimental Tests
GR 15.1–15.4	Do	17:45–19:05	VMP6 HS C	Numerical Relativity
GR 16.1–16.6	Fr	8:45–10:45	VMP6 HS A	Gravitational Waves
GR 17.1–17.5	Fr	11:15–12:55	VMP6 HS A	Quantum Gravity IV

Postersitzung

Die Poster können ab Dienstag an den Posterwänden im VMP 6 Foyer angebracht werden. Während der für die Poster angegebenen Sitzung sollten die Poster von den Autoren für Diskussionen betreut werden.

Mitgliederversammlung Fachverband Gravitation und Relativitätstheorie

Donnerstag 19:30–20:30 VMP6 HS A

- Tagesordnung
- Protokoll des letzten Jahres
- Bericht des Vorsitzenden
- Vergangene und zukünftige Aktivitäten
- Wahl der Leiterin / des Leiters und des Beirats
- Büchertisch
- Verschiedenes