Location

This year's autumn workshop will be held at ZARM, University of Bremen.

The address of the workshop is:

Center of Applied Space technology and Microgravity (ZARM), University of Bremen, Am Fallturm, 28359 Bremen.

https://www.zarm.uni-bremen.de/de/

Directions

By public transport

By train:

The central station is located right in the heart of the city center and ZARM can be easily reached by taxi and tram. If you take the exit "City" you will find a tram station right in front of the of the central railway station. Please take line 6 direction "Universität" and after 10 minutes you will reach ZARM. Please get off the tram at Klagenfurterstraße", and you will spot the drop tower 50 m ahead of you. By taxi, you will reach ZARM in 10 - 15 minutes, and the fare is about 14.00 EUR. The German word for drop tower is "Fallturm", a building and address most taxi drivers will be familiar with

By car

By car you reach ZARM via Autobahn A 27 (direction Bremerhaven, Cuxhaven). Take the exit: Horn-Lehe, Universität and you can't miss.

By plane

Flights to and from Bremen ariport (BRE) can be found at http://airport-bremen.de/

Participating Universities



Autumn Workshop 2018

Participating Institutes

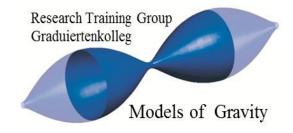


Funded by



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10. – 12.09.2018 ZARM University of Bremen

Monday, 10.09.2018

13:00 - 20:30 Session One 13:00 - 13:30 Coffee and Welcome Gleb Zhilin (University of Hannover) 13:30 - 14:00 A new construction of rational electromagnetic knots Christian Pfeifer (University of Tartu) 14:00 - 15:00 The Universe as a medium -Observables from modified dispersion relations as traces of quantum gravity 15:00 - 15:30 Coffee Friedrich W. Hehl (University of 15:30 - 16:30 Cologne) Premetric teleparallel theory of gravity and its local and linear constitutive law Coffee 16:30 - 17:00 Eugen Radu (University of Aveira) 17:00 - 18:00 Spontaneous scalarisation of charged black holes 18:30 - 19:30 Dinner Petra Rudolf (University of Groningen) 19:30 - 20:30 How to keep women (and men) in science

Tuesday, 11.09.2018

09:00 - 12:00	Session Two
09:00 - 09:30	Kris Schroven (ZARM, Uni Bremen) The role of electric charge in the accretion process
09:30 - 10:30	Sven Zschocke (TU Dresden) Light propagation in the Solar System for high-precision astrometry on the sub-micro-arcsecond level
10:30 - 11:00	Coffee
11:00 - 12:00	Rainer Verch (University of Leipzig) Unruh effect and Tolman temperature
12:15 - 13:30	Lunch
13:30 - 17:30	Session Three [Experiments]
13:30 - 14:30	Meike List (ZARM, Uni Bremen) Fundamental physics in space - The MICROSCOPE mission
14:30 - 15:00	Coffee
15:00 - 16:00	Martina Gebbe (ZARM, Uni Bremen) Atom interferometry on ground and in space
16:00 - 16:30	Coffee
16:30 - 17:30	Sven Herrmann (ZARM, Bremen) A test of the gravitational redshift with Galileo satellites in an eccentric orbit
18:00 – 20:00	Dinner at Restaurant Matisse
20:00 - 22:00	Visit of Telescopium Lilienthal
22:00	End of visit. With tram back to hotel etc.

Wednesday, 12.09.2018

09:00 - 12:15 Session Four

09:00 - 09:45	Vojtech Witzany (ZARM, Uni Bremen) A critical overview of the theory of accretion onto black holes
09:45 - 10:45	Harald Pfeiffer (Albert Einstein Institute, Hannover) Simulations of binary black holes and applications to gravitational wave astronomy
10:45 - 11:15	Coffee
11:15 - 12:15	Tra-Mi Ho (DLR Bremen) <i>How to explore an asteroid with 10 kg:</i> <i>the MASCOT concept</i>
12:30 - 13:45	Lunch and RTG Board Meeting
13:45 - 17:15	Session Five
13:45 – 14:45	Steffen Schön (University of Hannover) Strengthening GNSS Navigation with Clocks
14:45 - 15:15	Coffee
15:15 - 16:00	RTG General Assembly
16:00	Defense of Zelimir Marojewic Gravitationally bound Bose-Einstein condensates