

## Campus Map



The lecture room in W16A is on the South-East end of the building on the ground floor.

Lecture room:  
**W16A-004**

Seminar room:  
**W16A-010**

The building W16A is located at the parking area at Campus Wechloy

## Directions

### Address

Universität Oldenburg, Campus Wechloy  
Carl-von-Ossietzky-Str. 9-11, 26129 Oldeburg

### By public transport

Please take the bus **306** (Universität) at the ZOB or Lappan to the bus stop **Carl-von-Ossietzky-Straße**. The bus leaves every 15 min during the day.

### By car

Please park at the designated parking areas in front of the building.

### By plane

The easiest accessible airport is located in Bremen (BRE). Other options are Hamburg (HAM) or Hannover (HAJ).

## Participating Universities



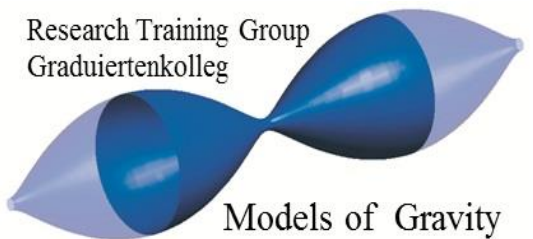
## Participating Institutes



## Funded by



# Autumn Workshop 2019



25. – 27.09.2019  
CvO University  
Oldenburg

### Contact

secretariat@models-of-gravity.org  
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## Wednesday, 25.09.2019

10:30 - 11:00 *Welcome Coffee*

### 11:00 - 13:00 **Session One**

11:00 - 12:00 **Monika Moscibrodzka** (Nijmegen, Netherlands)  
"Seeing the unseeable: First results from the Event Horizon Telescope and the physical origin of the asymmetric ring"

12:00 - 13:00 **Hector Olivares Sanchez** (Nijmegen, Netherlands)  
"Fitting models for the EHT2017 observations"

13:00 - 14:30 *Lunch*

### 14:30 – 16:00 **Session Two**

14:30 – 15:00 **Matheus do Carmo Teodoro** (Oldenburg, Germany)  
"Tidal disruption clouds around boson stars"

15:00 - 16:00 **Christian Pfeifer** (Tartu, Estonia)  
"Teleparallel Gravity: Formalism and Predictions"

16:00 - 16:30 *Coffee and discussions*

### 16:30 – 18:00 **Session Three**

16:30 - 17:30 **Manuel Hohmann** (Tartu, Estonia)  
"Gauge-invariant approach to the parameterized post-Newtonian formalism and the post-Newtonian limit of teleparallel gravity"

17:30 - 18:00 **Kai Flathmann** (Oldenburg, Germany)  
"Post-Newtonian limit of general scalar-torsion theories of gravity"

18:30 **Dinner and Movie Night**

## Thursday, 26.09.2019

### 09:00 – 10:30 **Session Four**

09:00 - 10:00 **Ivo Sachs** (München, Germany)  
"On non-perturbative tree-level unitarity in gravitational scattering"

10:00 – 10:30 **Dennis Stock** (Bremen, Germany)  
"The Hawking Energy in Cosmology"

10:30 - 11:00 *Coffee and discussions*

### 11:00 – 12:00 **Session Five**

11:00 – 12:00 **Ahmad Sheykhi** (Shiraz, Iran / Oldenburg, Germany)  
"Modified Friedmann Equations from Tsallis Entropy"

12:00 - 13:30 *Lunch and Board Meeting*

### 13:30 – 15:30 **Session Six**

13:30 – 14:30 **Bettina Langfeldt** (Kassel, Germany)  
**Lecture series "Gender and Diversity in Physics"**  
"Remaining gender disparities in the academic career of physicists – empirical findings and potential explanations"

14:30 – 15:30 **Ute Kraus** (Hildesheim, Germany)  
"Visualization of Relativity"

15:30 - 16:00 *Coffee and discussions*

### 16:00 – 17:30 **Session Seven**

16:00 - 17:00 **Betti Hartmann** (São Paulo, Brazil / Bilbao, Spain)  
"Vortices/Strings with internal structure"

17:00 – 17:30 **Michael Wondrak** (Frankfurt, Germany)  
"On Applying the Gauge/Gravity Duality to Physics far from Equilibrium"

18:00 **Dinner at Ali Baba**

## Friday, 27.09.2019

### 09:00 – 10:30 **Session Eight**

09:00 - 10:00 **Yves Brihaye** (Mons, Belgium)  
"Tachyon, Dp-branes and quasi-exact-solvability"

10:00 - 10:30 **Ludovic Ducobu** (Mons, Belgium)  
"Hairy Black Holes & Boson Stars: From shift-symmetry to spontaneous scalarization"

10:30 - 11:00 *Coffee and discussions*

### 11:00 – 12:00 **Session Nine**

11:00 - 11:30 **Sarah Kahlen** (Oldenburg, Germany)  
"How to relax the cosmological neutrino mass bound"

11:30 - 12:00 **Journal Club:**  
**Zahra Altaha Motahar** (Oldenburg, Germany)  
"Introduction to multi-messenger astronomy"

12:00 - 13:30 *Lunch*