



10<sup>th</sup> HGSFP

# Winter School



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386

January 27-31, 2017 in Obergurgl, Austria

Lectures on research topics of all HGSFP branches  
Participate in poster sessions  
Socialize with like-minded and take part in outdoor activities  
Open to all HGSFP students  
Travel and accommodation costs covered

## Mathematical Physics

**L. Witkowski**

Folk theorems of Quantum Gravity

## Special Invitation lecture:

**Monica Dunford**

From riots to raves: Modeling collective human behavior to avoid catastrophe

## Environmental Physics

**P. Yogeshwar**

Environmental Geophysics using Electromagnetic Methods

## Complex Classical Systems

**K. Großmayer**

Single-Molecule Fluorescence and Super-Resolution Imaging

## Fundamental Interactions

**N. Berger**

Two, three, many? How quarks make hadrons

**D. C. Gulhan**

QCD and Heavy Ion Collisions

## Astronomy and Cosmology

**B. M. Schäfer**

Fundamental principles and their realisation in physical laws

**G. Parmentier**

Star Clusters and Star Cluster Systems

## Complex Quantum Systems

**S. Hoekstra**

Fundamental physics with cold molecules

**F. Jendrzejewski**

Engineering static and dynamical gauge fields with ultracold matter

register now!\*

Register online: [http://gsfp.physi.uni-heidelberg.de/winterschool\\_2017/](http://gsfp.physi.uni-heidelberg.de/winterschool_2017/)

(\*): the registration is open from October 10-31, 2016. Applicants will be selected and notified shortly after the registration is closed and **not** on a first-come first-serve basis!

