

# Autumn Block Course

## 11.10. - 15.10. 2010

★ **LOCATION:** Landwirtschaftliche-Gärtnerische Fakultät HU Berlin

Address: Landwirtschaftliche-Gärtnerische Fakultät HU Berlin  
Invalidenstrasse 42  
Hörsaal 4 und 19

★ **BASIC LECTURES**

Christian Stegmann - *Astroparticle Physics (Astro)*  
Herrmann Nicolai - *Introduction to Supergravitation (SUGRA)*

★ **ADVANCED LECTURES**

The lectures will be held in parallel courses (*Parallel*).

Wouter Verkerke - *Statistical Methods and Tools*  
Ulrich Wolff - *Basics of Lattice Quantum Field Theory*

★ **EVENING TALKS**

Stefan Rahmstorf -  
*The Climate Crisis: basic measurements, impacts and solution strategies*

★ **MUSEUM**

Guided tour through the exhibition "Evolution in Aktion"  
on Thursday 14-10-2010 at 16.30. (3 EUR per person)

★ **STUDENT PRESENTATIONS**

Mohammad Assadsolimani - *Two Loop Corrections for single top quark production*  
Clemens Lange - *QCD background modelling with semi-leptonic top pair production*  
Gerrit Spengler - *Dark Matter Search with H.E.S.S.*  
Sebastian Wuttke - *Minimal Surfaces in ADS/CFT*  
Patrick Czodrowski - *Light charged Higgs (exclusive limits) at ATLAS (with first data)*  
Rafik Aouane - *On the gluon propagator at finite temperature QCD*  
Philipp Anger - *Study of Weak Boson Scattering with Pile-Up with the ATLAS-Detector at the LHC*





TIMETABLE

TIME	MONDAY 11.10.	TUESDAY 12.10.	WEDNESDAY 13.10.	THURSDAY 14.10.	FRIDAY 15.10.
09:00 - 10:30		<i>Astro</i> HS 19	<i>Parallel</i> HS 4/19	<i>SUGRA</i> HS 4/19	<i>Presentations</i> HS 19
10:30 - 11:00		Coffee	Coffee	Coffee	Coffee
11:00 - 12:30		<i>Astro</i> HS 19	<i>Parallel</i> HS 4/19	<i>SUGRA</i> HS 19	<i>Presentations</i> HS 19
12:30 - 14:30		Lunch	Lunch	Lunch	Lunch
14:30 - 16:00	<i>SUGRA</i> HS 19	<i>Parallel</i> HS 4/19	<i>Astro</i> HS 4/19	<i>SUGRA</i> HS 19	
16:00 - 16:30	Coffee	Coffee	Coffee	Coffee	
16:30 - 18:00	<i>SUGRA</i> HS 19	<i>Parallel</i> HS 4/19	<i>Astro</i> HS 19	<i>Museum</i>	
18:00 - 20:30		Diner	Diner	Diner	
20:30 - 21:30		<i>Climate Crisis</i> HS 19			