

## HGSFP Winter School 2007: Scientific Program

Day	Astronomy and Cosmic Physics	Quantum Dynamics and Complex Quantum Systems
Sunday 16.12.	Arrival	
Monday 17.12.	Presentation of PhD projects	
	Guest lecture Jörg Schmiedmayer	
Tuesday 18.12.  after dinner	Containers, Algorithms and Iterators: Using the STL [M.C.]	Cold Atoms as Strongly Correlated Quantum Many Body Systems: Introduction and Theoretical Description [P.K.]
	Discussion of PhD projects	Experiments with Low Dimensional Quantum Gases [P.K.]
	Presentation of PhD projects	
Wednesday 19.12.  after dinner	Singletons and Factories: Basic Design Patterns and their Use [M.C.]	Introduction to Floquet Theory I [I.L.]
	Galaxy Cluster Simulations and Comparison with Observations / The Standardmodell of Structure Formation [W.K.] & [T.K.]	Atom Chips I [S.H.]
	Presentation of PhD projects	
Thursday 20.12.	A Tutorial on Buffer Overflow Exploits [M.C.]	Introduction to Floquet Theory II [I.L.]
	Common social activity	
	Conference dinner	
Friday 21.12.	Discussion and Planing of Astronomer's Convention	Atom Chips II [S.H.]
	Departure (4 pm)	

**BREAKFAST** 7.30 – 8.30 am  
**DINNER** 6.30 pm

[I.L.] Igor Lesanovsky  
[M.C.] Marc Kirchner  
[P.K.] Peter Krüger  
[S.H.] Sebastian Hofferberth  
[T.K.] Thomas Kronberger  
[W.K.] Wolfgang Kapferer