



Lecture Course in the Integrated Research Training Group (IRTG)
of the SFB 676 "Particles, Strings and the Early Universe"

Winter Term 11/12

WORKSHOP SEMINAR

Particles, Strings & the Early Universe

"Vacuum Transitions"

W. Buchmüller, T. Konstandin, J. Louis, R. Richter, A. Weiler, A. Westphal

Timeline:

- 18.10. Preliminaries
 - 01.11. Symmetry restoration at high temperatures
 - 08.11. The electroweak phase transition
 - 15.11. Convex and nonconvex potentials
 - 22.11. LHC and electroweak phase transitions
 - 29.11. The fate of the false vacuum
 - 06.12. Tunneling & gravity
 - 13.12. Instantons
 - 20.12. Sphalerons
 - 10.01. Instantons in supersymmetric gauge theories
 - 17.01. The Affleck-Dine-Seiberg (ADS) superpotential
 - 24.01. Seiberg Duality
 - 31.01. Supersymmetry breaking meta-stable vacua
- Mathias Garny (WB)
Boris Panes (TK)
Tigran Kalaydzhyan (WB)
Jan Heisig (TK)
Patrick Vaudrevange (AIW)
Kai Schmitz (AIW)
Christoph Horst (AnW)
Sergei Bobrosvkyi (AnW)
Tobias Hansen (RR)
Markus Rummel (RR)
Tomas Kasemets (RR)
Kohei Kamada (RR)

Date and Place:

Tue, 11:00 – 12:30, SR 2a/2, DESY

Starting on:

18 October, 2011