

# **Hot Topics in Particle and Astroparticle Physics 2004**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and Organizational Issues

*Wednesday, 27 October 2004 10:15 (15 minutes)*

**Primary author:** SIEGFRIED BETHKE, MICHAEL ALTMANN (MPI)

**Presenter:** SIEGFRIED BETHKE, MICHAEL ALTMANN (MPI)

**Session Classification:** Morning

Contribution ID: 2

Type: **not specified**

## **Compactifications of String- and M-Theory - An Introduction**

*Wednesday, 27 October 2004 10:20 (25 minutes)*

**Primary author:** CLAUD JESCHEK

**Presenter:** CLAUD JESCHEK

**Session Classification:** Morning

Contribution ID: 3

Type: **not specified**

## **Flux-induced Soft SUSY-breaking Terms for an MSSM-like Model**

*Wednesday, 27 October 2004 10:25 (25 minutes)*

**Primary author:** SUSANNE REFFERT (MPI)

**Presenter:** SUSANNE REFFERT (MPI)

**Session Classification:** Morning

Contribution ID: 4

Type: **not specified**

# Statistical Learning Methods in High Energy Physics and Astrophysics

*Wednesday, 27 October 2004 10:30 (25 minutes)*

**Primary author:** JENS ZIMMERMANN (MPI)

**Presenter:** JENS ZIMMERMANN (MPI)

**Session Classification:** Morning

Contribution ID: 5

Type: **not specified**

## **The ATLAS-Detector: Concept and Realization**

*Wednesday, 27 October 2004 10:35 (25 minutes)*

**Primary author:** JOCHEN SCHIECK (MPI)

**Presenter:** JOCHEN SCHIECK (MPI)

**Session Classification:** Morning

Contribution ID: 6

Type: **not specified**

## <b>Lecture</b><br>Standard Model Higgs Searches at the LHC

*Wednesday, 27 October 2004 14:00 (50 minutes)*

**Primary author:** SANDRA HORVAT (MPI)

**Presenter:** SANDRA HORVAT (MPI)

**Session Classification:** Afternoon

Contribution ID: 7

Type: **not specified**

# The Mass of the Lightest Higgs Boson in the MSSM

*Wednesday, 27 October 2004 14:05 (25 minutes)*

**Primary author:** HEIDI RZEHAK (MPI)

**Presenter:** HEIDI RZEHAK (MPI)

**Session Classification:** Afternoon

Contribution ID: 8

Type: **not specified**

## **<b>Lecture</b><br>Modern Detectors I - Cryogenic Detectors**

*Wednesday, 27 October 2004 14:10 (50 minutes)*

**Primary author:** GODEHARD ANGLOHER (MPI)

**Presenter:** GODEHARD ANGLOHER (MPI)

**Session Classification:** Afternoon

Contribution ID: 9

Type: **not specified**

# Study of the Charged Current Interactions at H1

*Wednesday, 27 October 2004 14:15 (25 minutes)*

**Primary author:** RINGAILE PLAKACYTE (MPI)

**Presenter:** RINGAILE PLAKACYTE (MPI)

**Session Classification:** Afternoon

Contribution ID: **10**

Type: **not specified**

# Triggering of the Charged Current Interactions at H1

*Wednesday, 27 October 2004 14:20 (25 minutes)*

**Primary author:** BILJANA VUJICIC (MP)

**Presenter:** BILJANA VUJICIC (MP)

**Session Classification:** Afternoon

Contribution ID: 11

Type: **not specified**

# **Generalized Complex Geometry and Topological Sigma Models**

*Wednesday, 27 October 2004 14:25 (25 minutes)*

**Primary author:** FLORIAN GMEINER (MPI)

**Presenter:** FLORIAN GMEINER (MPI)

**Session Classification:** Afternoon

Contribution ID: 12

Type: **not specified**

## **HadCalc - A Program for the Calculation of Hadronic Cross Sections**

*Thursday, 28 October 2004 09:00 (25 minutes)*

**Primary author:** MICHAEL RAUCH (MPI)

**Presenter:** MICHAEL RAUCH (MPI)

**Session Classification:** Morning

Contribution ID: 13

Type: **not specified**

## **<b>Lecture</b><br>Modern Detectors II - Silicon Detectors for High Energy and Astrophysics Experiments**

*Thursday, 28 October 2004 09:05 (50 minutes)*

**Primary author:** LACI ANDRICEK

**Presenter:** LACI ANDRICEK

**Session Classification:** Morning

Contribution ID: 14

Type: **not specified**

## **First WIMP-Limits from the CRESST Dark Matter Search with Scintillating Modules**

*Thursday, 28 October 2004 09:10 (30 minutes)*

**Primary author:** FEDERICA PETRICCA (Mpi)

**Presenter:** FEDERICA PETRICCA (Mpi)

**Session Classification:** Morning

Contribution ID: 15

Type: **not specified**

## Deformed Spaces and Symmetries

*Thursday, 28 October 2004 09:15 (25 minutes)*

**Primary author:** FRANK MEYER (MPI)

**Presenter:** FRANK MEYER (MPI)

**Session Classification:** Morning

Contribution ID: **16**

Type: **not specified**

## **Alignment of the ATLAS Inner Detector**

*Thursday, 28 October 2004 09:20 (30 minutes)*

**Primary author:** ROLAND HÄRTEL (MPI)

**Presenter:** ROLAND HÄRTEL (MPI)

**Session Classification:** Morning

Contribution ID: 17

Type: **not specified**

# Conformal Field Theory Methods in String Theory

*Thursday, 28 October 2004 14:00 (25 minutes)*

**Primary author:** TIMO WEIGAND (MPI)

**Presenter:** TIMO WEIGAND (MPI)

**Session Classification:** Afternoon

Contribution ID: **18**

Type: **not specified**

# The Frictional Cooling Demonstration Experiment

*Thursday, 28 October 2004 14:05 (25 minutes)*

**Primary author:** DANIEL KOLLAR (MPI)

**Presenter:** DANIEL KOLLAR (MPI)

**Session Classification:** Afternoon

Contribution ID: **19**

Type: **not specified**

## Loop Corrections in Deconstruction

*Thursday, 28 October 2004 14:10 (25 minutes)*

**Primary author:** MICHAEL SPRANGER (MPI)

**Presenter:** MICHAEL SPRANGER (MPI)

**Session Classification:** Afternoon

Contribution ID: 20

Type: **not specified**

## Four-Fermion Production at the Gamma-Gamma Collider

*Thursday, 28 October 2004 14:15 (25 minutes)*

**Primary author:** AXEL BREDENSTEIN (MPI)

**Presenter:** AXEL BREDENSTEIN (MPI)

**Session Classification:** Afternoon

Contribution ID: **21**

Type: **not specified**

## The MAGIC Gamma Ray Telescope

*Thursday, 28 October 2004 14:20 (25 minutes)*

**Primary author:** ROBERT WAGNER (MPI)

**Presenter:** ROBERT WAGNER (MPI)

**Session Classification:** Afternoon

Contribution ID: 22

Type: **not specified**

## <b>Lecture</b><br>Renormalons I

*Thursday, 28 October 2004 14:25 (50 minutes)*

**Primary author:** ANDRE HOANG (MPI)

**Presenter:** ANDRE HOANG (MPI)

**Session Classification:** Afternoon

Contribution ID: 23

Type: **not specified**

## <b>Lecture</b><br>Renormalons II

*Friday, 29 October 2004 09:00 (40 minutes)*

**Primary author:** ANDRE HOANG (MPI)

**Presenter:** ANDRE HOANG (MPI)

**Session Classification:** Morning

Contribution ID: 24

Type: **not specified**

## Quenching Factor Measurements for the CRESST Experiment

*Friday, 29 October 2004 09:05 (20 minutes)*

**Primary author:** JELENA NINKOVIC (MPI)

**Presenter:** JELENA NINKOVIC (MPI)

**Session Classification:** Morning

Contribution ID: 25

Type: **not specified**

## The next-to-lightest Neutralino Decay at LHC

*Friday, 29 October 2004 09:15 (20 minutes)*

**Primary author:** QINGJUN XU (xu@mppmu.mpg.de)

**Presenter:** QINGJUN XU (xu@mppmu.mpg.de)

**Session Classification:** Morning

Contribution ID: 26

Type: **not specified**

## **Radiation Hardness of HEC-Electronics**

*Friday, 29 October 2004 09:20 (20 minutes)*

**Primary author:** EMANUEL RAUTER (MPI)

**Presenter:** EMANUEL RAUTER (MPI)

**Session Classification:** Morning

Contribution ID: 27

Type: **not specified**

## **Detection of Gamma Ray Bursts with the MAGIC Telescope - A Feasibility Study**

*Friday, 29 October 2004 09:25 (25 minutes)*

**Primary author:** SATOKO MIZOBUCHI (MPI, University of Ehime)

**Presenter:** SATOKO MIZOBUCHI (MPI, University of Ehime)

**Session Classification:** Morning

Contribution ID: 28

Type: **not specified**

## **Black Hole Mass Decreasing due to the Phantom Energy Accretion**

*Friday, 29 October 2004 09:10 (20 minutes)*

**Primary author:** EUGENY BABICHEV (MPI)

**Presenter:** EUGENY BABICHEV (MPI)

**Session Classification:** Morning

Contribution ID: 29

Type: **not specified**

## The GERDA Search for Neutrinoless Double Beta Decay

*Friday, 29 October 2004 14:00 (25 minutes)*

**Primary author:** XIANG LIU (MPI)

**Presenter:** XIANG LIU (MPI)

**Session Classification:** Afternoon

Contribution ID: 30

Type: **not specified**

## <b>Lecture</b><br>Numerical Integration

*Friday, 29 October 2004 14:05 (50 minutes)*

**Primary author:** THOMAS HAHN (MPI)

**Presenter:** THOMAS HAHN (MPI)

**Session Classification:** Afternoon