

**Symposium of the
Sino-German GDT
Cooperation**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome to the Symposium

Monday, 8 April 2013 09:15 (10 minutes)

Presenter: GRABMAYR, Peter (University of Tübingen)

Session Classification: Welcome

Contribution ID: 1

Type: **not specified**

Welcome to Universität Tübingen

Monday, 8 April 2013 09:25 (10 minutes)

Presenter: MUETHER, Herbert (Prorector of the Universitaet Tuebingen)

Session Classification: Welcome

Contribution ID: 2

Type: **not specified**

Introduction to the Cooperation Program

Monday, 8 April 2013 09:50 (10 minutes)

Presenter: ABT, Iris (MPI for Physics Munich)

Session Classification: Welcome

Contribution ID: 3

Type: **not specified**

Opening Ceremony and Revealing of Cooperation Plate

Monday, 8 April 2013 10:00 (15 minutes)

Presenter: GRABMAYR, Peter (University of Tübingen)

Session Classification: Welcome

Contribution ID: 4

Type: **not specified**

Overview of Germanium Detectors in Fundamental Research

Monday, 8 April 2013 11:25 (45 minutes)

An overview is given over the experiments and their demands of detectors used in fundamental research (search for dark matter / neutrinoless double beta decay / spectroscopy / ...)

Presenter: EITEL, Klaus (KIT)

Session Classification: Germanium Detectors in Basic Research

Contribution ID: 5

Type: **not specified**

Technical Specifications and Requirements on Detectors for Dark Matter Searches

Monday, 8 April 2013 12:10 (25 minutes)

Presenter: LI, Jin (Tsinghua University)

Session Classification: Germanium Detectors in Basic Research

Contribution ID: 6

Type: **not specified**

Technical Specifications and Requirements on Detectors for Neutrinoless Double Beta Decay Searches

Monday, 8 April 2013 12:35 (25 minutes)

Presenter: ABT, Iris (MPI for Physics)

Session Classification: Germanium Detectors in Basic Research

Contribution ID: 7

Type: **not specified**

Germanium Detectors in Space

Monday, 8 April 2013 14:00 (45 minutes)

The integral mission and the results obtained with germanium detectors

Presenter: DIEHL, Roland (MPI for Extraterrestrial Physics)

Session Classification: Special Guest

Contribution ID: 13

Type: **not specified**

Demands on Test Facilities for Production and Research

Tuesday, 9 April 2013 09:00 (10 minutes)

Presenter: ABT, Iris (MPI for Physics)

Session Classification: Test Facilities

Contribution ID: 14

Type: **not specified**

GALATEA at MPI

Tuesday, 9 April 2013 09:10 (20 minutes)

Presenter: IRLBECK, Sabine (MPI for Physics)

Session Classification: Test Facilities

Contribution ID: 16

Type: **not specified**

Readout: the Path to a 1-ton System

Wednesday, 10 April 2013 11:00 (20 minutes)

Presenter: SCHULZ, Oliver (MPI for Physics)

Session Classification: Electronics

Contribution ID: 17

Type: **not specified**

ASICS for Germanium

Wednesday, 10 April 2013 11:20 (20 minutes)

Presenter: DENG, Zhi (Tsinghua University)

Session Classification: Electronics

Contribution ID: 23

Type: **not specified**

MaGe, a GEANT Based Simulation Tool

Wednesday, 10 April 2013 14:00 (30 minutes)

Presenter: LIU, Xiang (Shanghai Jiaotong University)

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: 24

Type: **not specified**

Pulse Shape Analysis for CDEX

Wednesday, 10 April 2013 14:30 (20 minutes)

Presenter: ZHAO, Wei (Tsinghua University)

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: 26

Type: **not specified**

Working Groups

Wednesday, 10 April 2013 16:30 (1h 30m)

Description as before

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: 28

Type: **not specified**

Muon Flux Measurements and Simulation at Jinping

Thursday, 11 April 2013 09:30 (30 minutes)

Presenter: ZENG, Zhi (Tsinghua University)

Session Classification: Neutrons

Contribution ID: **31**

Type: **not specified**

Working groups

Thursday, 11 April 2013 11:30 (1h 25m)

Description as before

Session Classification: Neutrons

Contribution ID: 32

Type: **not specified**

CDEX and Other Germanium / Xenon Based Dark Matter Searches

Thursday, 11 April 2013 14:30 (40 minutes)

Presenter: YUE, Qian (Tsinghua University)

Session Classification: Future Projects

Contribution ID: 33

Type: **not specified**

Neutrinoless Double Beta Experiments

Thursday, 11 April 2013 15:40 (1 hour)

Majorana / GERDA and the Xenon Challenge

Presenter: MAJOROVITS, Bela (MPI for Physics)

Session Classification: Future Projects

Contribution ID: **34**

Type: **not specified**

The 1 Ton Challenge

Thursday, 11 April 2013 16:40 (30 minutes)

Presenter: ABT, Iris (MPI for Physics)

Session Classification: Future Projects

Contribution ID: 35

Type: **not specified**

Reports on Plans of Working Groups

Thursday, 11 April 2013 14:00 (30 minutes)

Session Classification: Future Projects

Contribution ID: 37

Type: **not specified**

Transfer to Munich - Visit of MPI for Physics Munich

Friday, 12 April 2013 08:30 (3h 30m)

Contribution ID: **38**

Type: **not specified**

Plate Ceremony at MPI

Friday, 12 April 2013 14:00 (30 minutes)

Contribution ID: 39

Type: **not specified**

Welcome to MPI

Friday, 12 April 2013 12:05 (45 minutes)

Overview of the Research at MPI

Presenter: ABT, Iris (MPI for Physics Munich)

Contribution ID: 40

Type: **not specified**

Transfer to Hotel

Friday, 12 April 2013 15:35 (10 minutes)

Contribution ID: 41

Type: **not specified**

Evening at the Hofbräuhaus

Friday, 12 April 2013 19:30 (3h 30m)

Contribution ID: 42

Type: **not specified**

Tour of MPI in small groups

Friday, 12 April 2013 14:30 (1 hour)

Contribution ID: 44

Type: **not specified**

Greetings from the Sino-German Center

Presenter: TBA

Contribution ID: 45

Type: **not specified**

Technical Specifications and Requirements on Detectors for Reactor Neutrino Experiments

Monday, 8 April 2013 11:00 (25 minutes)

Presenter: WONG, Henry (Academia Sinica)

Session Classification: Germanium Detectors in Basic Research

Contribution ID: 46

Type: **not specified**

What you need to design a detector: Principles of Field Calculations and Pulse Shape Simulations

Tuesday, 9 April 2013 11:00 (40 minutes)

Presenter: LIU, Jing (University of Tokyo)

Session Classification: Germanium Detector Design and Pulse Shape Simulation

Contribution ID: 48

Type: **not specified**

Field Calculation - Evaluation of Different Programs

Tuesday, 9 April 2013 11:40 (20 minutes)

Presenter: DÖNMEZ, Burcin (MPI for Physics)

Session Classification: Germanium Detector Design and Pulse Shape Simulation

Contribution ID: 49

Type: **not specified**

PSS: Evaluation and Verification for a Novel Inverted Coaxial PC-Detector

Wednesday, 10 April 2013 09:00 (1h 5m)

Presenter: RADFORD, David (Oakridge National Laboratory)

Session Classification: Pulse Shape Simulation and Evaluation

Contribution ID: 50

Type: **not specified**

PSS: Results Obtained for a Segmented Point Contact Detector

Wednesday, 10 April 2013 10:05 (20 minutes)

Presenter: DÖNMEZ, Burcin (MPI for Physics)

Session Classification: Pulse Shape Simulation and Evaluation

Contribution ID: 51

Type: **not specified**

Input Parameters to Detector Simulation

Wednesday, 10 April 2013 10:25 (15 minutes)

How well do we know impurity densities and mobilities?

Presenter: ABT, Iris (MPI for Physics)

Session Classification: Pulse Shape Simulation and Evaluation

Contribution ID: 52

Type: **not specified**

Recent Progress in Ultralow Noise, Ultralow Background Detectors

Monday, 8 April 2013 14:45 (30 minutes)

Presenter: MARIAN, Vlad (Canberra)

Session Classification: Detector Production

Contribution ID: 53

Type: **not specified**

Detector Production at Tsinghua

Monday, 8 April 2013 15:15 (20 minutes)

Presenter: ZHANG, Lan (Nuctech Company Ltd.)

Session Classification: Detector Production

Contribution ID: 54

Type: **not specified**

Tsinghua Test Facility

Tuesday, 9 April 2013 09:30 (20 minutes)

Presenter: CHEN, Qinghao (Tsinghua University)

Session Classification: Test Facilities

Contribution ID: 55

Type: **not specified**

Conventional Teststands at MPI

Tuesday, 9 April 2013 09:50 (20 minutes)

Presenter: GARBINI, Lucia (MPI for Physics)

Session Classification: Test Facilities

Contribution ID: 56

Type: **not specified**

Test of 1kg Point Contact Detectors and CDEX String Assemblies

Tuesday, 9 April 2013 10:10 (20 minutes)

Presenter: WU, Yucheng (Tsinghua University)

Session Classification: Test Facilities

Contribution ID: 57

Type: **not specified**

Discussion: Do we need more test facilities and what do we want to test?

Contribution ID: 58

Type: **not specified**

Options for Digitisation and Data Compression

Wednesday, 10 April 2013 11:40 (20 minutes)

Presenter: XUE, Tao (Tsinghua University)

Session Classification: Electronics

Contribution ID: 59

Type: **not specified**

The DAQ System for CDEX

Wednesday, 10 April 2013 12:00 (20 minutes)

Presenter: LIU, Shukui (SichuanUniversity)

Session Classification: Electronics

Contribution ID: **60**

Type: **not specified**

Set up Working Groups

Wednesday, 10 April 2013 12:40 (20 minutes)

Electronics: Demands on electronics, placement of FET for low background experiments, possibilities for ASICs.

Neutrons: Calculation of flux from muons, from radioactivity, measurement of muon/neutron flux.

PSS/PSA: calculation of electric field and weighting potentials, simulation of trajectories and input parameters, determination of pulse parameters

Session Classification: Electronics

Contribution ID: **61**

Type: **not specified**

Pulse Shape Analysis for AGATA

Wednesday, 10 April 2013 14:50 (20 minutes)

Presenter: REITER, Peter (University of Cologne)

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: 62

Type: **not specified**

Pulse Shape Analysis E/A for GERDA

Wednesday, 10 April 2013 15:10 (20 minutes)

Presenter: LIAO, HengYe (MPI for Physics)

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: 63

Type: **not specified**

Bulk vs Surface Events in Texono

Wednesday, 10 April 2013 15:30 (20 minutes)

Presenter: WONG, Henry (Academia Sinica)

Session Classification: Software - including Pulse Shape Analysis

Contribution ID: **64**

Type: **not specified**

Neutron Flux Measurements at Jinping

Thursday, 11 April 2013 10:00 (30 minutes)

Presenter: XING, Haoyang (Sichuan University)

Session Classification: Neutrons

Contribution ID: 65

Type: **not specified**

Neutron Background Simulation for ⁷⁶Germanium in Deep Underground Laboratories

Thursday, 11 April 2013 09:00 (30 minutes)

Presenter: PALERMO, Matteo (MPI for Physics)

Session Classification: Neutrons

Contribution ID: 66

Type: **not specified**

Measurement of Neutron Interactions With an 18-Fold Segmented True Coax Detector

Thursday, 11 April 2013 11:00 (30 minutes)

Presenter: LIU, Jing (University of Tokyo)

Session Classification: Neutrons

Contribution ID: 67

Type: **not specified**

Neutron Inelastic Processes and E0 Transition Simulation Problems in GEANT4 for the Neutron-Induced Background Evaluation

Presenter: WEI, Wenzhao (University of South Dakota)

Contribution ID: 69

Type: **not specified**

Digital pulse processing of semiconductor detector signals

Presenter: HENNING, Andreas (University of Cologne)

Contribution ID: 70

Type: **not specified**

Plenary Discussion

Contribution ID: 71

Type: **not specified**

Digital Pulse Processing of Semiconductor Detector Signals

Wednesday, 10 April 2013 12:20 (20 minutes)

Presenter: HENNIG, Andreas (University of Cologne)

Session Classification: Electronics

Contribution ID: 72

Type: **not specified**

Physics at Universitaet Tuebingen

Monday, 8 April 2013 09:35 (15 minutes)

Presenter: JOCHUM, Josef (Universitaet Tuebingen)

Session Classification: Welcome

Contribution ID: 73

Type: **not specified**

Symposium-Group-Picture

Monday, 8 April 2013 10:15 (5 minutes)

Session Classification: Welcome

Contribution ID: 74

Type: **not specified**

Pictures form the time in Tuebingen – tar ball – 380MB

Monday, 8 April 2013 10:20 (5 minutes)

Session Classification: Welcome