



Max-Planck-Institut für Physik
(Werner-Heisenberg-Institut)



EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



Deutsch-Chinesische-Kooperationsgruppe

Development of High Purity Germanium Detector Techniques for Applications in Fundamental Research

Finanziell unterstützt durch: Chinesisch-Deutsches Zentrum für Wissenschaftsförderung Peking, China

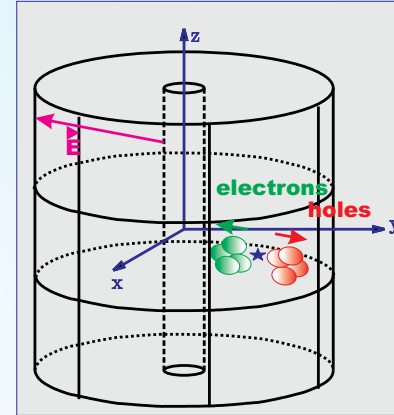
中德合作研究小组

应用于基础研究的高纯锗探测器技术研发

资助者: 中德科学中心 / 中国 北京

Subjects

- **Detector technology itself**
- **Electronics and readout**



- **Testing**
- **Experiments to be planned**
- **Experimental conditions**
- **Backgrounds: especially neutrons**

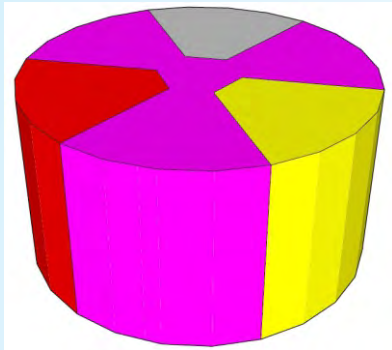
Projects of the Cooperation

- **Detector technology itself**
 - **n-type segmented BeGe [Canberra]**
 - * **60 k€ from cooperation, rest MPI**
- **Design**
 - Bela Majorovits [MPI]**
 - Burcin Donmez [MPI at Tsinghua]**
- **Testing**
 - HengYe Liao [MPI]** 
 - Ma Hao [Tsinghua]**
 - Xiang Liu [Jiatong, MPI]** 
- **Publication soon to come**



Projects of the Cooperation

- n-type segmented BeGe



Projects of the Cooperation

- **Electronics and readout**
 - **Try an ASIC from Tsinghua on a segmented detector at the MPI**
- **ASIC**
Deng Zhi [Tsinghua] 
- **Integrate at MPI**
Oliver Schulz [MPI] 

**This is a typical case of “things take longer”.
I still hope it will happen.**



Projects of the Cooperation

- **Backgrounds: especially neutrons**

- **MINIDEX**

An Experiment to measure muon induced neutrons

Matteo Palermo [MPI]

Raphael Kneissl [MPI]

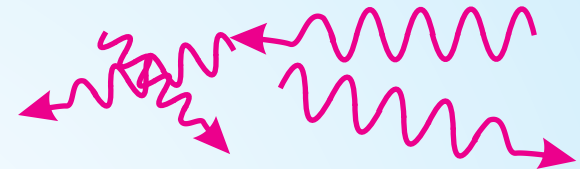
Oliver Schulz [MPI]

Chris Gooch [MPI]

plus fast neutrons

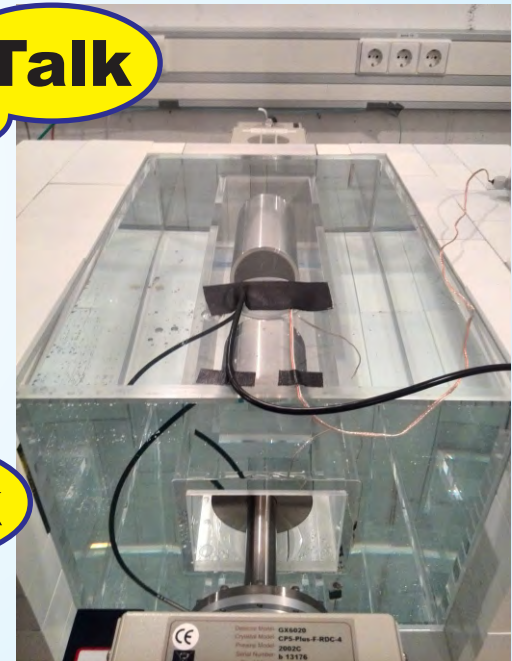
Wang Li [Tsinghua]

installed in Tübingen.



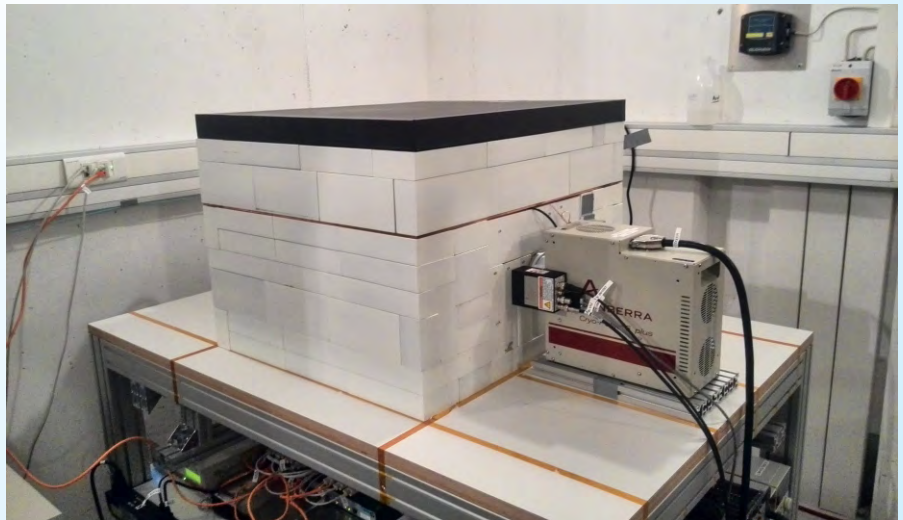
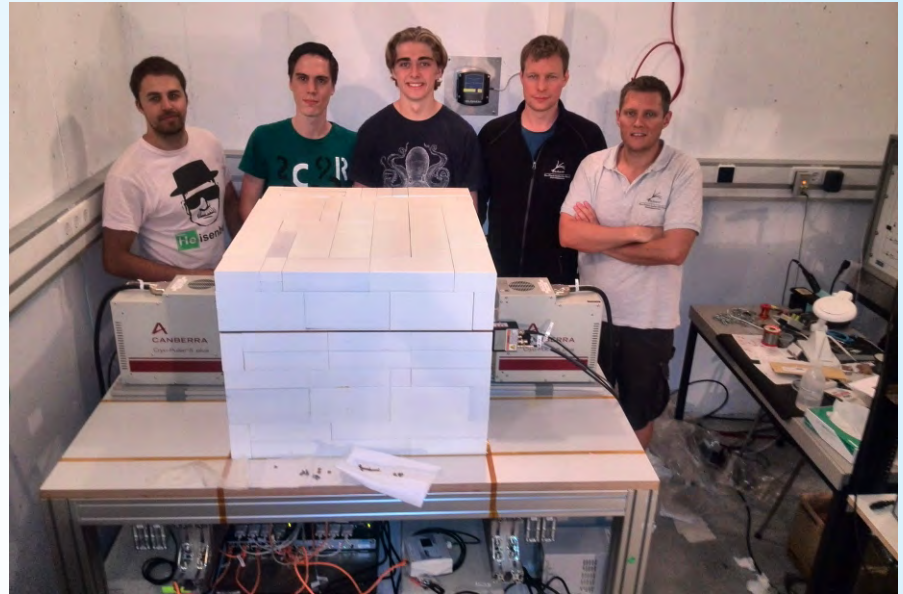
Talk

Talk



Projects of the Cooperation

- MINIDEX



Projects of the Cooperation

- Experiments to be planned

- Expression of Interest

A large scale experiment based on germanium technology at CJPL



Iris Abt
Henry Wong
Qian Yue



Contacts for the Future

