

7th Georgian-German School and Workshop in Basic Science



SCOPE

The word "SCOPE" is displayed in a stylized, 3D block font. Each letter is contained within a colored rectangular block: 'S' is light blue, 'C' is green, 'O' is orange, 'P' is light blue, and 'E' is orange. The blocks are slightly offset to create a sense of depth.

August 29, 2016 | Hans Ströher (Forschungszentrum Jülich)

History of GGSB – from 2004 to 2014



Achievements of GGSB – Graduations (PhD) 2016



Zara Bagdasarian
Cotutelle (Cologne & TSU)



Malkhaz Jabua
(Cologne University, GTU)

GGSB in 2016 – Topical Workshop

7th GEORGIAN - GERMAN SCHOOL AND WORKSHOP IN BASIC SCIENCE



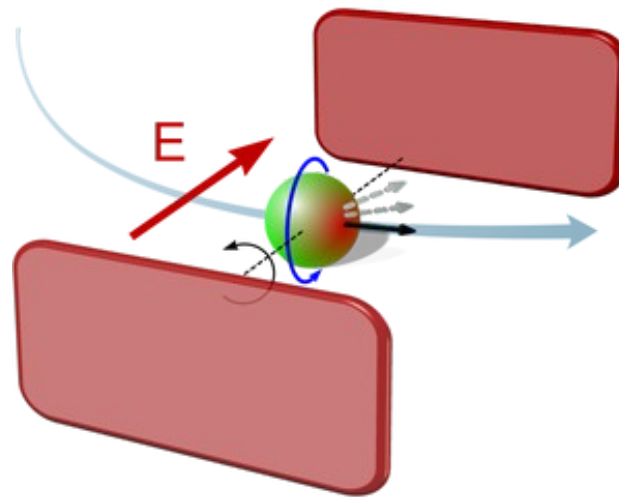
Topics:

1. **Symmetries in Subatomic Physics** (T- and CP- violations)
2. **Electric Dipole Moment (EDM) Searches** (e.g. JEDI project)
3. **Neutrino Physics** (e.g. JUNO project)
4. **Standard Model and Beyond** (Theory, HEP Experiments)
5. **Engineering Sciences** (Simul., Instrumentation, Electronics)
6. **Applications** (e.g. Medical Imaging)

GGSB in 2016 – JEDI Collaboration Meeting (Sept. 1)

JEDI ... Jülich Electric Dipole Moment Investigations

- Intends to search for charged particle EDMs in storage rings
- Exploits COSY storage ring for R&D and first measurement



Courtesy: Volker Hejny

Science case: matter-antimatter asymmetry - Why do we exist?

GGSB in 2016 – SMART|EDM_Lab: Implementation



SMART|EDM_Lab

Search for Electric Dipole Moments

New concept: **SMART|Labs**

Well equipped and maintained modern laboratories affiliated with one of the Georgian universities

Small group of experts and students headed by an outstanding young Georgian scientist

Dedicated to specific projects in different fields of fundamental and applied science

GGSB – Outlook



Caspar David Friedrich
(1774 – 1840)

Wanderer above the
sea of fog

- **Prosperity of SMART|Labs**
- **Continuation of Autumn Lect´ s**
- **New initiatives (Seasonal school)**
- **Next GGSWBS in 2018**
- **Common H2020 etc. applications**
- **Extension to the larger region**



გმადლობთ