

# TASCA 05

## 4<sup>th</sup> Workshop on Recoil Separator for Superheavy Element Chemistry

October 6, 2005, Oslo, Norway

### Scope

- The main focus of the TASCA 05 workshop will be:
- To discuss within the international community the chosen DQQ-design for the gas-filled separator TASCA and its realization at GSI
- To discuss the progress, the status and the future work of the "TASCA@GSI Task Groups" within the community, and to harmonize the work of the TASCA Task Groups.
- To discuss plans for first specific experiments at and with TASCA and to determine their requirements.  
(At this time we begin our Call for a "Letter of Intent" !)
- To discuss the envisioned scientific program at and with TASCA – chemical and physical experiments - in the context of the heavy and superheavy element program at other separators and with "pure" chemical methods.

### Topics

All topics in the Scope of this workshop shall be discussed and we ask for submission of contributions. Especially welcome are the following topics:

- Heavy element separation in gas-filled separators
- Magnet designs and separator configurations
- Window and target designs for high intensity heavy-ion beams
- Windowless operation of gas-filled separators
- Detectors and data acquisition
- $\alpha$ -,  $\gamma$ -, and conversion electron spectroscopy in the focal plane
- in combination with chemistry experiments
  
- Nuclear structure and stability (half lives, decay modes)
- Nuclear reactions (fusion reactions, target-projectile combinations, cross sections, multi-nucleon transfer products, ...)
  
- Achievements and perspectives in superheavy element chemistry

### Organizers & Chair-person

**Matthias Schädel & Dieter Ackermann**, Gesellschaft für Schwerionenforschung mbH (GSI), Darmstadt, Germany

**Jon Petter Omtvedt** (local contact & local organizer), Department of Chemistry, University of Oslo, Oslo, Norway

**Andreas Türler**, Institut für Radiochemie, Technische Universität München, München, Germany

## List of Participants

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