TASCA 06

5th Workshop on Recoil Separator for Superheavy Element Chemistry

September 29, 2006, Garching, Germany

Scope

The main focus of the TASCA 05 workshop will be:

- To discuss within the international community the status of the gas-filled separator TASCA at GSI – the experimental set up and the theoretical modeling of its performance – and the upcoming experiments within the commissioning program.
- 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 scientific experiments at and with TASCA and to determine their requirements.
- 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; charge state
- Modeling of separator performances
- Window and target designs for high intensity heavy-ion beams
- Coupling of chemistry devices to gas-filled separators
- Detectors and data acquisition
  - α-, γ-, and conversion electron spectroscopy in the focal plane
  - in combination with chemistry experiments
- Nuclear structure, decay and stability aspects
- Nuclear reactions studies
- Achievements and perspectives in superheavy element chemistry

Organizers & Chair-person

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