1. Title and spokesperson

Neutron-rich nuclei in the vicinity of 208Pb

Zsolt Podolyak

1. Main objectives

Study of neutron-rich nuclei around 208Pb. Main aim is probably 207Tl

1. Short statement on the run itself and how AGATA operated.

The experiment went OK. There were the normal problems one would expect at such complex experiments. The AGATA staff was fantastic, very professional.

1. Status of the analysis,

Data being analysed by PhD student Ryan Kempley (Surrey). Gamma-ray spectra obtained for beam-like Xe nuclei were obtained. These show the expected lines. The analysis is ongoing. The experiment is being replayed to allow time gates (clean the spectra).  Ryan is in Padova now working closely with Francesco Recchia, hoping to solve the remaining issues.

1. Any results

It was proved that the cross-coincidence between Xe and Pb isotopes worked. No nuclear structure results yet.

1. Publications or talks (or an indication if there will be any)

R. Kempley et al, Acta Phys. Pol. B42, 717 (2011)

Talks given at the Zakopane conference 2010. Also at EGAN2011.

1. Any problems

There are no problems related to AGATA and the experiment itself. The data analysis is very complex. It would be nice to have a document explaining all the steps in details (with all the equations used for calibrations, reaction mechanism, angle calculations)

1. Anything else

No.