Contribution ID: **82** Type: **oral**

SPIRAL 1 upgrade: status and perspectives for physics

Thursday 10 June 2010 12:10 (20 minutes)

Since 2001, SPIRAL at GANIL has been delivering radioactive ion beams of unique intensity and purity for physics experiments. Using projectile fragmentation on a graphite target and ionization in an ECR ion source via a cold transfer passage, mostly isotopes of gases lighter than Xe and fragments of volatile molecules such as O and F were post-accelerated. During the past year, a project was formed to upgrade the present facility with a 1+ to n+ charge breeding system, thus permitting the use of more versatile 1+ sources for extending the range of elements available for post-acceleration. Numerous physics projects based on the potential new capabilities of SPIRAL 1 were recently formulated in the form of letter of intents, attesting of the scientific relevance of such upgrade.
This contribution will present the status of the upgrade, its positioning with respect to the SPIRAL 2 production capabilities and physics objectives.

Is this an invited talk? (please answer yes or no)

no

Would you prefer your contribution to be a poster presentation? (please answer yes or no)

no

Would you prefer your contribution to be an oral presentation? (please answer yes or no)

yes

Author: Dr DELAHAYE, Pierre (GANIL)

Co-authors: Mr PICHARD, Alexandre (GANIL); Dr JACQUOT, Bertrand (GANIL); Dr CLEMENT, Emmanuel (GANIL); Dr DE OLIVEIRA, François (GANIL); Dr FRANBERG, Hanna (GANIL); Dr THOMAS, Jean Charles (GANIL); Mr PACQUET, Jean Yves (GANIL); Dr MAUNOURY, Laurent (GANIL); Dr LEWITOWICZ, Marek (GANIL); Dr SAINT LAURENT, Marie-Geneviève (GANIL); Mr DUBOIS, Mickael (GANIL); Dr ALAHARI, Navin (GANIL); Dr BAJEAT, Olivier (GANIL); Dr JARDIN, Pascal (GANIL); Dr ROUSSEL-CHOMAZ, Patricia (GANIL); Mr LEHÉRISSIER, Patrick (GANIL); Dr GALES, Sydney (GANIL)

Presenter: Dr DELAHAYE, Pierre (GANIL)

Session Classification: Future RIB Facilities

Track Classification: Future RIB facilities