

GANIL PROPOSAL FOR EXPERIMENT

| | |
|-----------------------|-------------------------|
| PAC date : | EXP # (Do not fill in): |
| November, 2011 | E |

TITLE :

Is it a follow up experiment? [Yes/No]: _____ If yes, experiment number: E

Spokespersons (if several, please use capital letters to indicate the name of the contact person):

Address of the CONTACT person:

Phone: _____ Fax: _____ E mail: _____

Address of the backup person:

Phone: _____ Fax: _____ E mail: _____

Please indicate here other participants with their affiliation (laboratory, university ...)

Short abstract:

| EXPERIMENTAL DEVICES NEEDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----|---|----|---|--|---|--|------------|-------|--|--|--|--|----|-----|-----|----|-----|-------|--|--|--|--|--|--|----|----|----|----|---------|--|--|--|--|--|--|--|
| SPECTROMETERS | | DETECTION SYSTEMS | | If you have already choose a spectrometer, You don't have to indicate a beam line again. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAMOS (G1 Hall) | | EXOGRAM * | | | | <table border="1"> <thead> <tr> <th colspan="6">BEAM LINES</th> </tr> <tr> <th>G1</th> <th>G21</th> <th>G22</th> <th>G3</th> <th>G42</th> <th>LIRAT</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>D5</td> <td>D4</td> <td>D6</td> <td colspan="2">D2/SIRA</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | BEAM LINES | | | | | | G1 | G21 | G22 | G3 | G42 | LIRAT | | | | | | | D1 | D5 | D4 | D6 | D2/SIRA | | | | | | | |
| BEAM LINES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G1 | G21 | G22 | G3 | | | | | G42 | LIRAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | D5 | D4 | D6 | | | | | D2/SIRA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LISE | | MUST2 ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LISE 2000 (D4 Hall) | | MAYA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LISE D4 (D4 Hall) | | INDRA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LISE D6 (D6 Hall) | | TIARA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wien Filter Needed? [Yes/No] | | DIAMANT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPEG (G3 Hall) | | DEMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Neutron-WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REACTION CHAMBERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECLAN | | * Indicate the number of clovers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAUTILUS (G42 Hall) | | ** Indicate the number of telescopes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Go to page 2 to list other devices | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| BEAM REQUEST | | | | | | |
|-----------------------------------|---------------------|------------------------|---|------------|--|-----------------------------|
| | Ion(s) | Energy (MeV/A) | Intensity (nAe) | Purity (%) | Beam extension (ns) | UT/beam (1 UT = 8 hours) |
| | | | <i>Indicate minimum values you need to run your experiment.</i> | | | |
| <u>Stable beam(s)</u> | 1. 2. | | | | | |
| EXOTIC BEAM PRODUCTION | | | | | | |
| <u>SPIRAL beam(s)</u> | 1. 2. | | | | | |
| CLIM beam(s)* | 1. 2. | | | | | |
| CLIM production* target(s) | Composition* | Thickness (µm)* | Power (W)* | | * For any question contact as soon as possible the LISE scientific coordinator | |
| | 1. [Be / Ni] | | | | | |
| | 2. [Be / Ni] | | | | | |

| | | |
|---|--|--|
| <i>If you need to accelerate more than one beam or energy include the beam-change tuning time in your total requested number of beam UTs.</i> | | |
| TOTAL number of beam UTs Requested: | | Number of auxiliary (parasitic) beam UTs (if needed): |

EXPERIMENTAL SET-UP DETAILS

Time (UTs) required for **setting up the apparatus**:

Time (UTs) needed **for off-beam calibration and dismantling**:

Will this require opening the roof beams above the area? [Yes/No]:

SAFETY : list any **hazardous equipment or substances** to be used, such as a radioactive target, liquid nitrogen, explosive gas, etc., even in SPEG or VAMOS chambers or germanium detectors:

Acquisition system: GANIL [Yes/No]: Other (specify):

List any special devices needed for this experiment which would require to be mounted prior to the experiment (special target chambers, detector arrays, etc.):

List any NEW devices needed for this experiment which still have to be bought or manufactured and indicate date do you expect these to be available:

SCHEDULE

If you wish **to split beam UTs** into more than one run, please specify UTs per run and period requested between runs:

On what date would you **be ready to run**: (month, year):

Excluded periods during next 3 years (if any already known):

EXPERIMENTAL FEED BACK AND RELATED SCIENTIFIC PRODUCTION

Give the status of previous experiment(s) done by this group in the last 3 years: e.g. results or status of analysis of previous experiments at GANIL (or related experiments elsewhere):

List publications, conference presentations, PhDs awarded, or other theses completed as a result of previous experiment(s) at GANIL (or related experiments elsewhere):

ADDITIONAL INFORMATION/COMMENTS