

Meeting – DESIR – VECC

VECC, Kolkata, 12/10/2012

Present: Chandana Bhattacharya, Sailajananda Bhattacharya, Gopal Mukherjee, Sarmishtha Bhattacharyya, Tumpa Bhattacharjee, Soumik Bhattacharya, Kaushik Banerjee, Tapan Kumar Rana, Tilak Ghosh, Ratnesh Pandey, Bertram Blank

The purpose of the meeting was to present GANIL/SPIRAL2/DESIR to the people from VECC and to discuss possible interests from VECC in DESIR.

B. Blank presented GANIL today and its extension with SPIRAL2 phase 1, presently under construction and phase 2, for which the construction is scheduled to start in 2015. In its complete version, the DESIR will get beams delivered from SPIRAL1 (mainly light proton- and neutron-rich fragmentation products), SPIRAL2 (fission products from ^{238}U fission, fusion-evaporation and transfer-reaction products), and S3 (fusion-evaporation products in particular also from refractory elements). The DESIR facility consists of beam line tunnels to bring these beams to DESIR, the DESIR hall with a 550m^2 basement including assembly rooms, clean rooms, a workshop and a laser laboratory and with a 1500m^2 (most likely 600m^2 for the start version) experimental hall. In this experimental hall, general purpose equipment like an identification station for the incoming beams, a buncher and purification systems will be installed. Groups within the DESIR collaboration will also install in this hall their equipment for experiments.

Out of an estimated cost of 15 MEuro for the DESIR baseline facility, 9 MEuro have been obtained recently from the French government via the EQUIPEX (equipment of excellence) funding. The Indian D.A.E. accepted a few weeks ago an in-kind funding of about 900 kEuro for the mechanical construction of the DESIR beam lines.

A DESIR Collaboration Agreement (DECA) was signed in January 2012 by 14 institutions. This DECA defines the organisation of the DESIR collaboration and describes the contribution from the different institutions for experimental facilities in DESIR.

After the presentation, a discussion followed of what could be possible next steps for VECC to get involved in DESIR. These possible steps could be a Letters of Intent for experiments at DESIR when a new call will be launched (possibly in 2013), the signature of the DECA, participation in R&D for DESIR etc.

It was concluded that the VECC scientists discuss first at a local level what their possible involvement could be and, if interested, contact B. Blank to coordinate further steps.