DEVELOPMENT OF BETA 0.12, 88 MHZ, QUARTER-WAVE RESONATOR AND ITS CRYOMODULE FOR THE SPIRAL2 PROJECT

G. Olry, J-L. Biarrotte, S. Blivet, S. Bousson, C. Commeaux, C. Joly, T. Junquera, J. Lesrel, E. Roy, H. Saugnac, P.Szott, B. Legoff * CNRS/IN2P3/IPNO, Orsay, France

SPIRAL2 is a radioactive beams facility, composed of a superconducting linac driver, delivering deuterons with an energy up to 40 MeV (5 mA) and beary ions with an energy of 14.5 MeV /u (1 mA). This facility is now fully approved by the French government.

The first prototype of beta 0.12 quarter-wave resonator has been recently fabricated by Zanon company and tested at IPN Orsay. The details on its fabrication and the results of the R² and mechanical tests at 4K will be presented. Then, we will show the design of the cryomodulo-B, dedicated to the high energy section of the linac, which is now ready to be ordered. Finally, the last studies of the R² D program, such as the last



............

Detuning: -18.2 kHz meas. (N/A calc.)