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SPIRAL2 Cryogenic System

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SPIRAL2 is a rare isotope accelerator which will based at GANIL, it is dedicated for the production of high intensity radioactive beams (E=40Mev, I=5mA). The driver of SPIRAL2 is a Linac, it uses bulk niobium superconducting RF cavities cooled with liquid helium. The cryogenic transfer line of the Linac is composed of about 20 valves boxes which su[[ly two types of helium cryogenic lines: The first at T=4.2K to feed the cavities and the second at T=60K for the thermal shield of the cryomodules. The refrigerator of the cryogenic installation must evacuate a total heat loss of about 1kW at T=4.2K and 2.5kW at T=60K. In this presentation, the SPIRAL2 cryogenic installation design will be detailed and its different operation modes will be described. The preliminary cryogenic experimental test results of the first cryomodule B at IPN ORSAY will be also presented and interpreted.

Proposed for workshop session (see call for abstracts): 1- Operation 2- Maintenance 3 - Safety 4 - Control

1- Operation

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