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# The vacuum systems at GANIL : the technical solutions and the maintenance aspect

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The GANIL is a heavy ions accelerator in operation from 1983, and composed of a set of 5 cyclotrons. Since 2001, the SPIRAL facility allows to produce radioactive ion beams (energy range 2 to 25 MeV/u) with the primary beams delivered by GANIL. The vacuum system of the large vessels of the cyclotrons are described as well as the SPIRAL vacuum systems. The maintenance procedures imposed by the safety constraints are exposed. So, the preliminary studies for the SPIRAL 2 Vacuum System are presented with the constraints due to the radioactive environment.

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