

**The PIAFE Project: Beam Transport of a Very Low Energy Radioactive Beam,** J.M. de CONTO, M. LAAMYEM, V. NIBART and the PIAFE Collaboration, ISN, Grenoble - The objectives of the PIAFE Project are to produce exotic heavy ions from the fission of an uranium target put inside the neutron flux of the Laue-Langevin Institute (ILL). After mass separation, the acceleration should be done by the two cyclotrons of the Institut des Sciences Nucléaires (ISN). The beam transport from ILL to ISN will be done at 10-30 keV by a 400 m long transfer line. The feasibility of such a transport had to be proven: choice of the focusing elements, vacuum, alignment and beam interaction with residual gas. An experimental 18 m long line has been built and will be presented, in terms of technological choices, of theoretical studies on beam transport and in terms of experimental results. This will show how and why the transport for a reduced cost is feasible.