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 β -decay properties of r-process nuclei in the region around ¹³⁷Sb J. PEREIRA, NSCL/MSU, R. KESSLER, Inst. fur Kernchemie, Univ. Mainz, F. ATTALACH, GSI, T. FASTERMANN, TU Munchen, H. GEISSEL, GSI, U. GIESEN, Univ. of Notre Dame, M. HANNAWALD, Inst. fur Kernchemie, Univ. Mainz, M. HAUSMANN, GSI, M HELLSTROM, GSI, K.-L. KRATZ, Inst. fur Kernchemie, Univ. Mainz, H. MAHMUD, Univ. of Edimburgh, M.N. MINEVA, Lund Univ., G. MUNZENBERG, GSI, B. PFEIFFER, Inst. fur Kernchemie, Univ. Mainz, P. SANTI, NSCL/MSU, H. SCHATZ, NSCL/MSU, C. SCHEIDENBERGER, GSI, K SCHMIDT, GSI, R. SCHNEIDER, TU Munchen, J. STADLMANN, Univ. of Edimburgh, A. STOLZ, TU Munchen, K. SUMMERER, GSI, E. WEFERS, TU Munchen, P.J. WOODS, Univ. of Edimburgh — Studies aimed to explore the β decay properties of very neutron rich nuclei are very important, since β -decays processes are related to the location and height of the r-process peak abundances. To this end, an experiment has been performed at GSI (Darmstad) to determine the $T_{1/2}$ and P_n values of nuclei in the region around ¹³⁷Sb. Different exotic nuclei, including some important "waiting points" around the A=130 region were produced by fission of a 750 MeV/u 238 U beam. The separated fragments were implanted into a stack of four double sided Silicon strip detectors, allowing a correlation between implantation and β -decays; β -delayed neutrons were measured with the Mainz 4π neutron long counter. Results obtained from this experiment will be presented.

> Jorge Pereira NSCL/MSU

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