

White-Light Laser Cooling of Ions in a Storage Ring, R. CALABRESE, V. GUIDI, P. LENISA, S. PETRUIO, Univ. Ferrara and INFN-FE, Italy; S.N. ATUTOV, Inst. Autom. and Electrom., Novosibirsk, Russia; L. TECCHIO, INFN-LNL - We propose the use of a white laser for laser cooling of ions in a storage ring. The use of a broad band laser provides a radiation pressure force with wide velocity capture range which is promising to improve the performance of both longitudinal and transverse cooling.