

Performance and Operation of the DAFNE Accumulator, M.A. PRÉGER, THE DAFNE PROJECT TEAM, INFN-LNF - DAFNE is an electron/positron collider, in operation at INFN Frascati since the beginning of 1998. Its injection system consists of a 0.55 GeV positron (0.8 GeV electron) Linac, an intermediate damping ring, called the Accumulator, and ≈ 180 long Transfer Lines connecting the Linac to the Accumulator and the Accumulator to the collider Main Rings. The Accumulator is a 0.55 GeV storage ring, operating in the single bunch mode, where electrons and positrons accelerated by the Linac are alternatively captured and stacked with high efficiency, due to its large acceptance and short damping time. The high quality damped beam is then extracted and transferred to the collider. The paper illustrates the operating experience with the Accumulator, injection/extraction efficiency and beam measurements.