

A Proposed RF System for the LSB Storage Ring,
F.PÉREZ, Laboratori del Síncrotró de Barcelona,
Bellaterra, Spain - The RF system in a storage ring
should replace the energy lost by the electrons as
synchrotron radiation and it should provide enough
energy acceptance in order to have large quantum and
Touschek lifetimes. Lifetimes, bunch length and single
bunch instabilities are analysed in order to determine
the total voltage that the RF system should provide to
the 200 mA electron beam. The RF system will work
at 500 MHz. The type of cavity used and the number
necessary to fulfil the power requirements of the
machine will be presented. Finally the RF parameters
for the multibunch and singlebunch operation modes
are given.