

First Induction Acceleration of a Proton Bunch in a Circular Ring

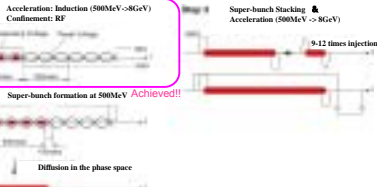
Superbunch

Kota Torikai, Ken Takayama (KEK)
Superbunch Project Team

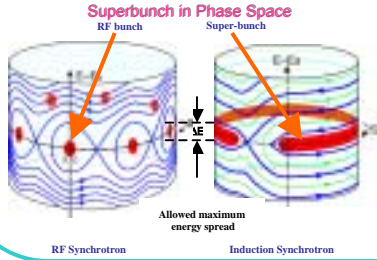
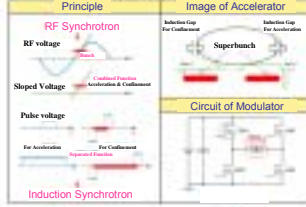
PROOF OF INDUCTION ACCELERATION

SCHEMATIC VIEW OF SUPERBUNCH PROJECT

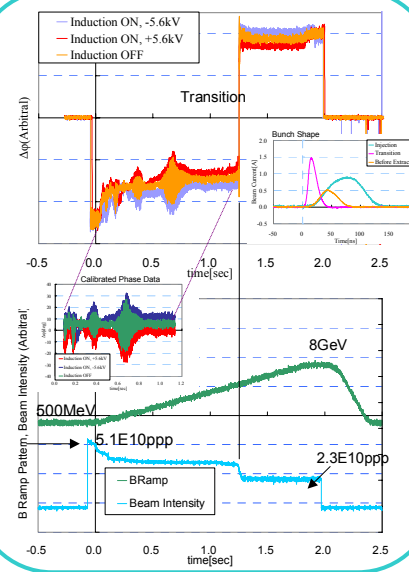
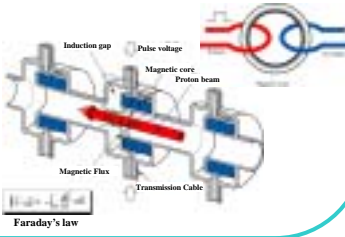
Induction Synchrotron PoP Experiments



Concept of Induction Synchrotron

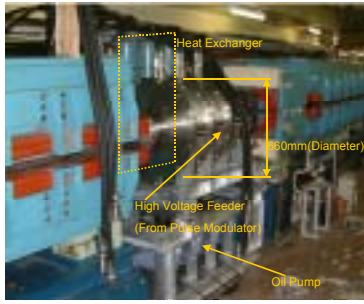


Induction Acceleration

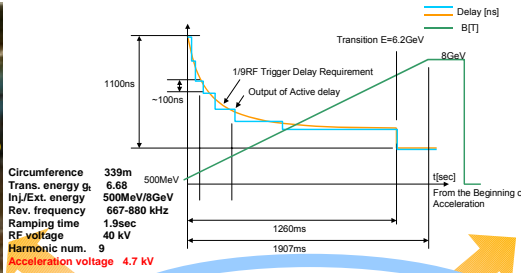


HARDWARE & SIGNAL CONTROL OF INDUCTION SYNCHROTRON

CW 1MHz INDUCTION CAVITY in PS



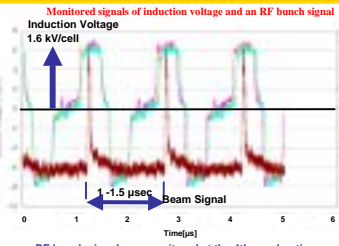
MACHINE PARAMETERS



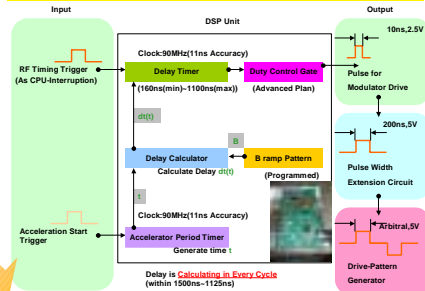
50kW DC POWER SUPPLY



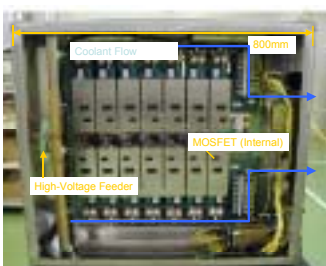
TIMING SYNCHRONIZATION



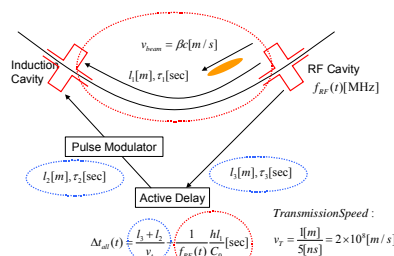
SIGNAL FLOW OF INDUCTION SYSTEM



CW 1MHz PULSE MODULATOR



REQUIREMENT OF ACTIVE DELAY



ACTIVE DELAY SYSTEM

