

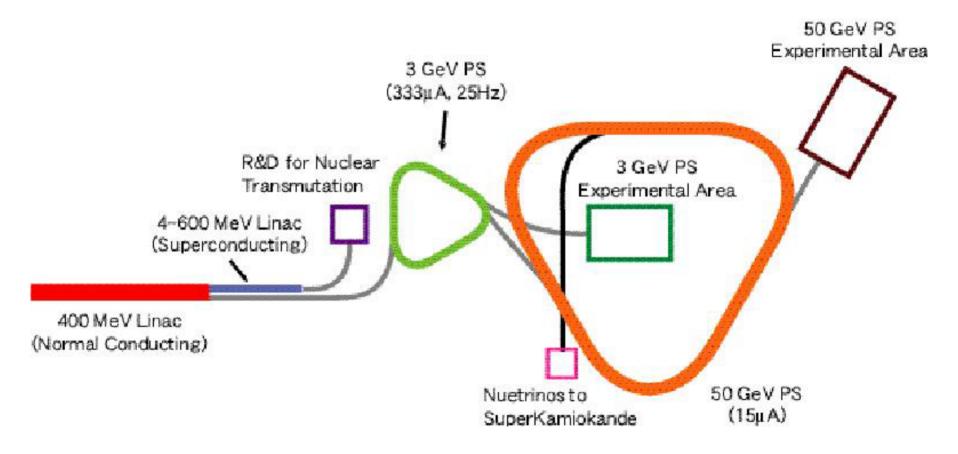
J-PARC Status Report

Junsei Chiba **KEK**

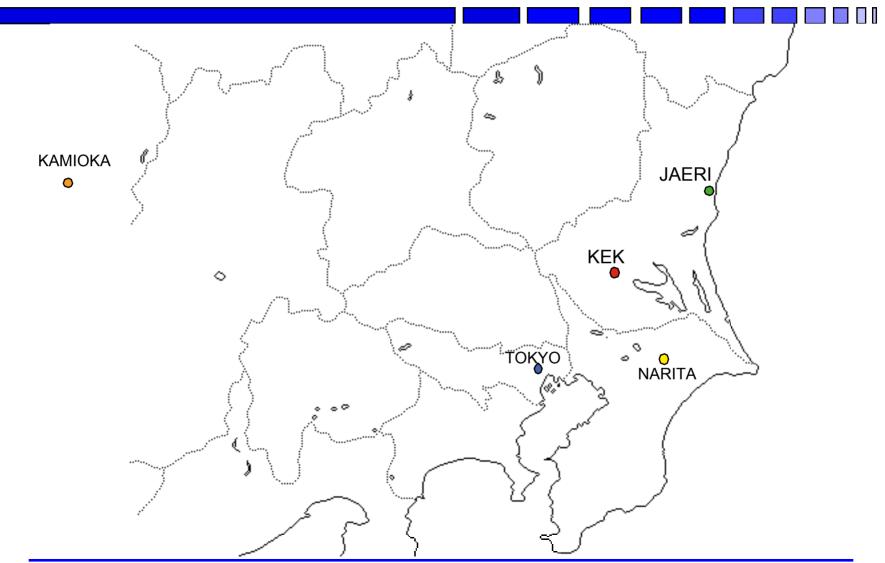


- Formerly "Joint KEK-JAERI Project"
- Nickname finally comes!
- Japan Proton Accelerator Research Complex
- **Organization Control group structure**
- **Current Status**



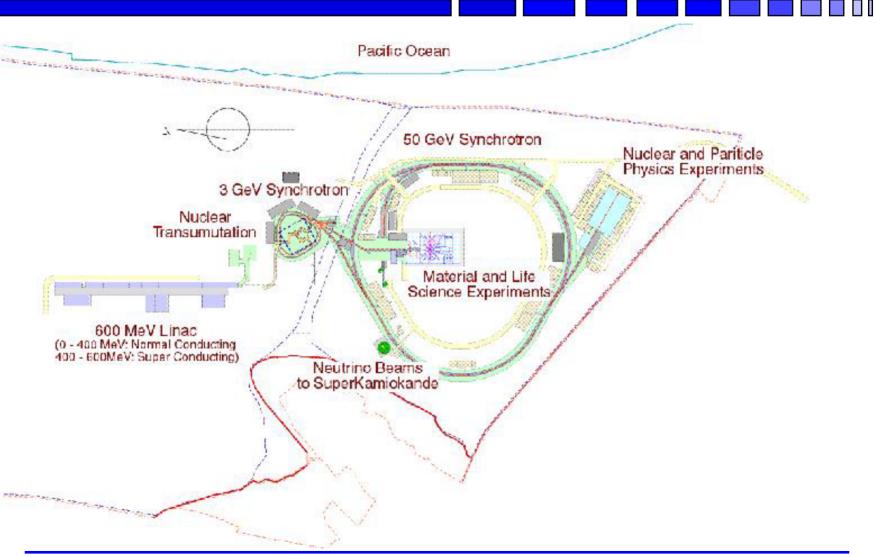


Location of JAERI at Tokai

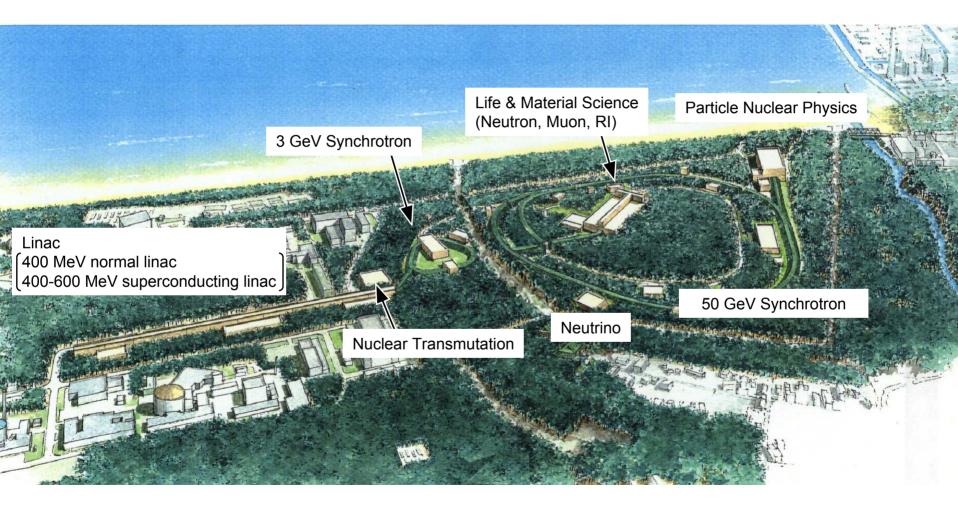




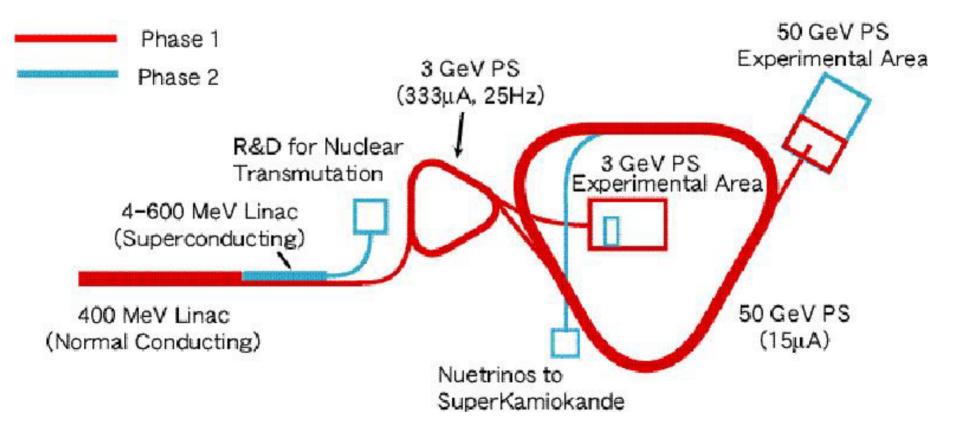
Plan View





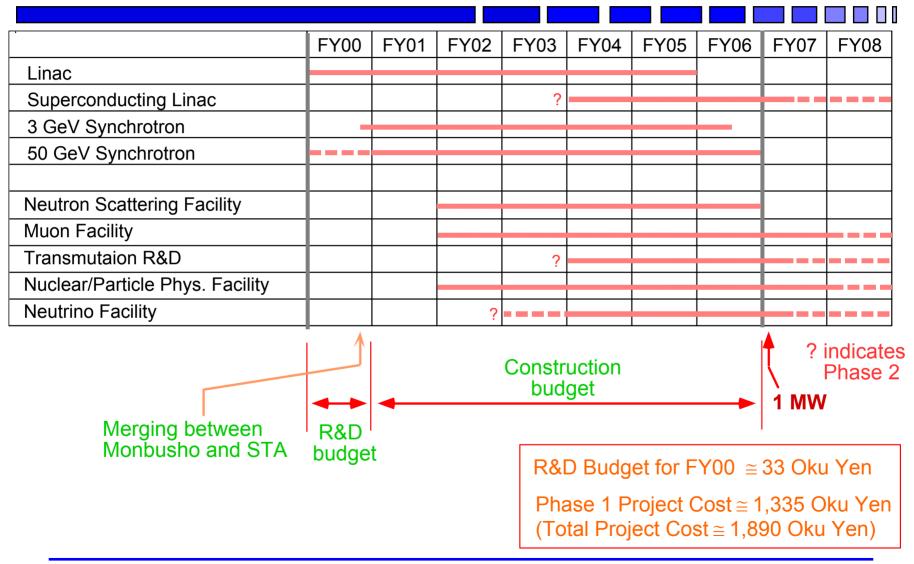








Schedule





Construction in progress

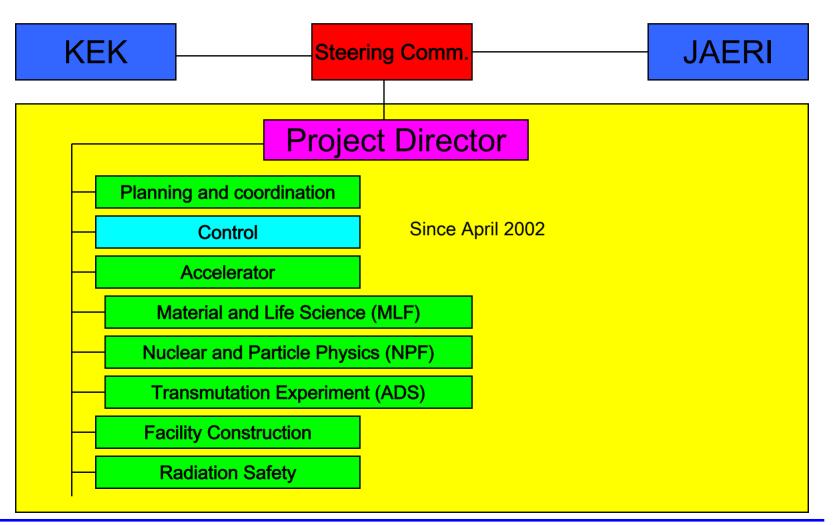


Nov-20-2002 at J-Lab (EPICS collaboration meeting)

J. Chiba (KEK)



Organization





Control Group Structure

Linac -J&K RCS-J&K MLF-J&K MR-KEK NPF-KEK Device Control **PPS MPS** Timing Network Utility **EPICS and Application Development Environment**

Need Database subgroup



EPICS Related Topics

- Host Problem (HP-UX)
 - We chose HP-UX because KEKB uses it
 - Make VxWorks using HP-UXv10 and copy it to v11
 - WindRiver no longer supports HP-UX
- Making host systems (KEK and JAERI) be identical
- Trying to define "standard" VME modules and PLCs
- Education/Demonstration program in progress
 - EPICS has been chosen for accelerator control, but very few people knows what is the EPICS
 - Control system for experiment groups is not decided yet
- Naming convention (not yet determined)
 - Example MRMAG:BMPS_D1_3:function
- Timing modules are now in designing stage. Need EPICS software



- Network connected controller (get rid of field-busses)
 - Simplify software, management and troubleshooting
 - Standard network technology
 - Normally UDP/IP for error handlings
- We have developed so far
 - PLC
 - Yokogawa FA-M3
 - Used for Ion-source, vacuum etc
 - WE7000 measurement station
 - Digital oscilloscope (100kS/s, 1MS/s, 100MS/s and 1GS/s)
 - May not be used for a 50-Hz LINAC operation
 - Ethernet interface board
 - Initially designed for the Power supplies of DTL Q-magnet
 - May be used most of Power supplies of DC magnets