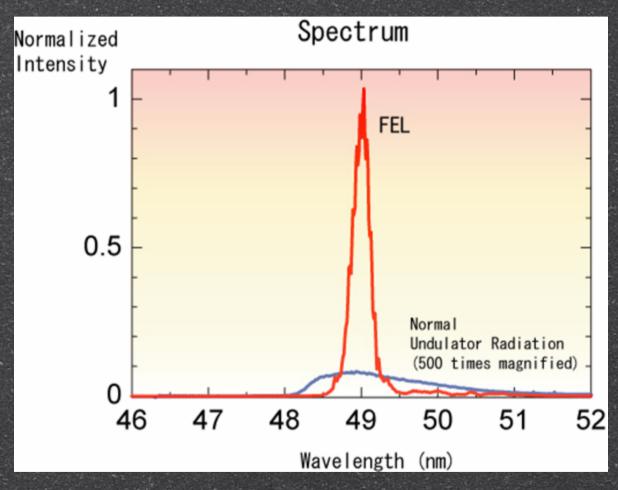
STATUS OF THE SCSS PROTOTYPE ACCELERATOR AND CONTROL SYSTEM

Toru OHATA / SPring-8

First lasing at the SCSS prototype accelerator



The first lasing: 49 nm 6000 times larger than the spontaneous undulator radiation @ June 20, 2006

Parameters of electron

E-beam energy: 250 MeV Bunch charge: 0.25 nC

Bunch length: < 1 psec

Peak Current: > 300 A



Forth generation light source

High peak brilliance, Small beam size, Optical coherency

Main Targets

- Life science to explore at "water window".
- High resolution 3-dimentional Imaging.
- Pump-probe experiment together with SPring-8 light source.
- Diffraction experiment of coherent scattering.