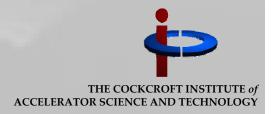
scRF in the UK



John Dainton Cockcroft Institute for Accelerator Science and Technology for CCLRC Daresbury and Rutherford Appleton Laboratories Accelerator Science and Technology Centre



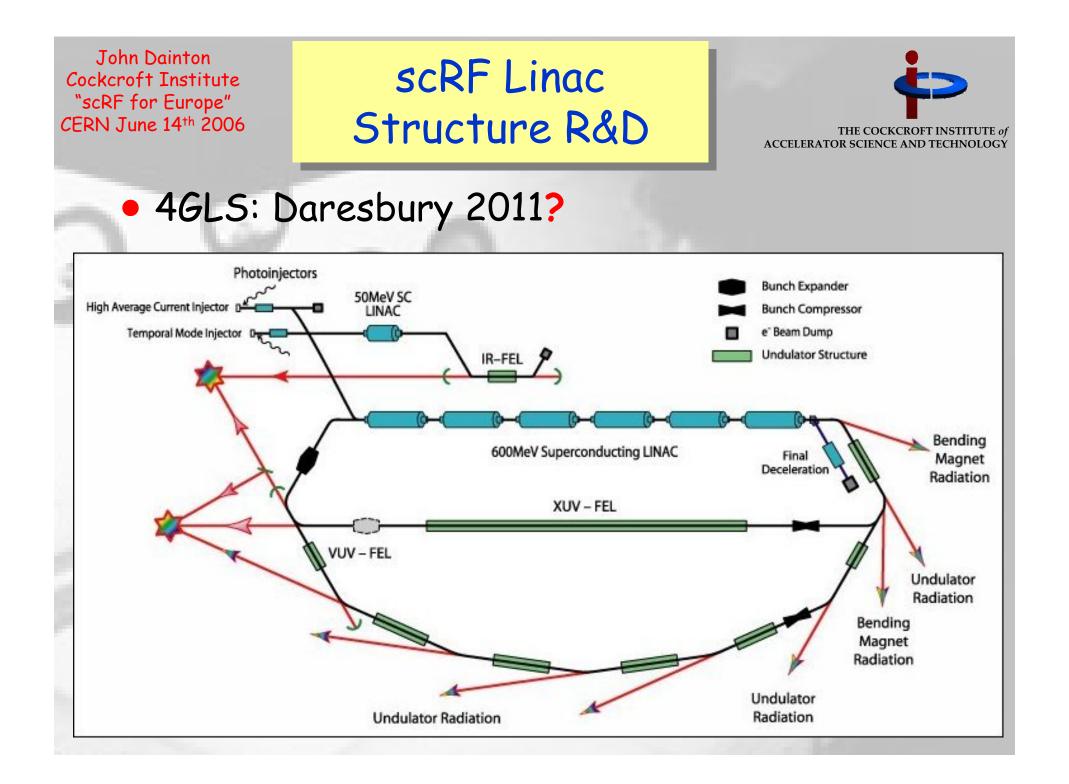
DIAMOND Light Source

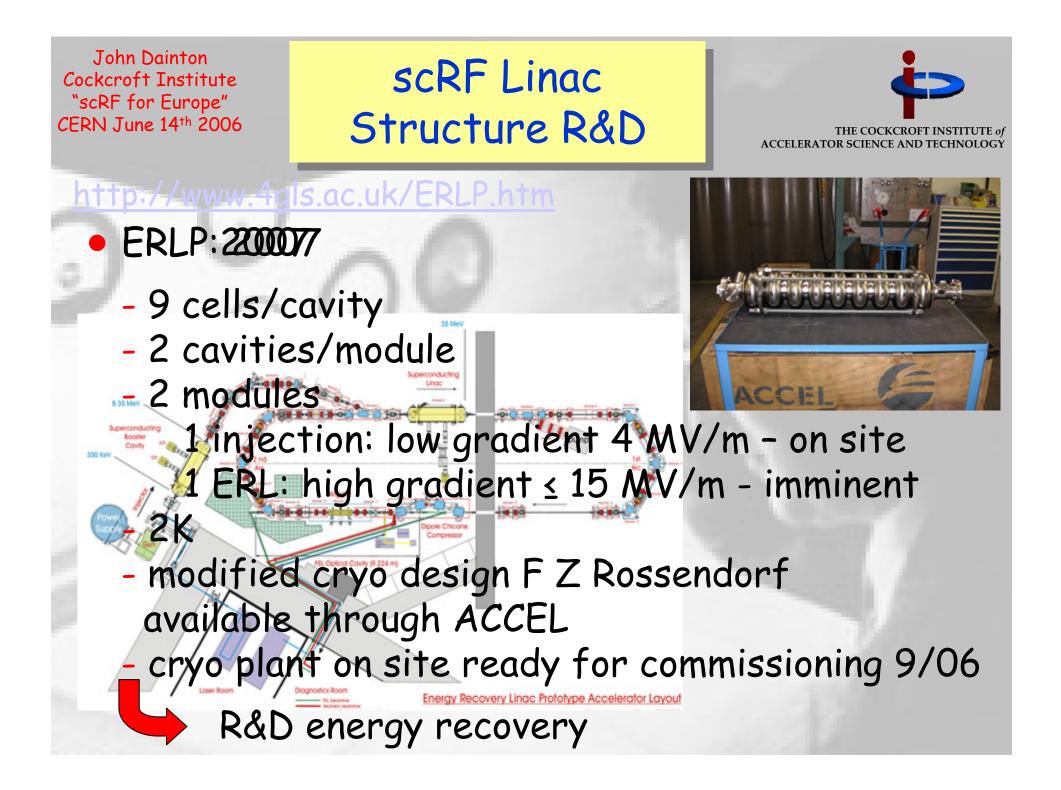


- 3 single cell cavities each cavity ≤ 200 kW
 ≤ 2 MV/cell redundancy
 IOTs in combination
- 500 MHz
- off the shelf ACCEL
 Cornell design
- 4K "standard cryogenics"
- operation imminent









scRF Linac Structure R&D



http://www.4gis.ac.uk/ERLP.htm

- ERLP 2007
 - losses (microphonics): improvement programme



 collaboration with Cornell (Stanford and Berkeley) improved cryo module ≤ 18 months

- cryo plant on site ready for commissioning 9/06

scRF Linac Structure R&D Future



infrastructure @ Daresbury/Cockcroft Institute

- design: physics and engineering on site physics and engineering Cockcroft Institute with ASTeC
- manufacturing and processing infrastructure @ €10M no success (yet!) with UK agencies
- testing

high power equipment on site