

Lectures on strongly correlated systems using synchrotron radiation: Basics to frontiers

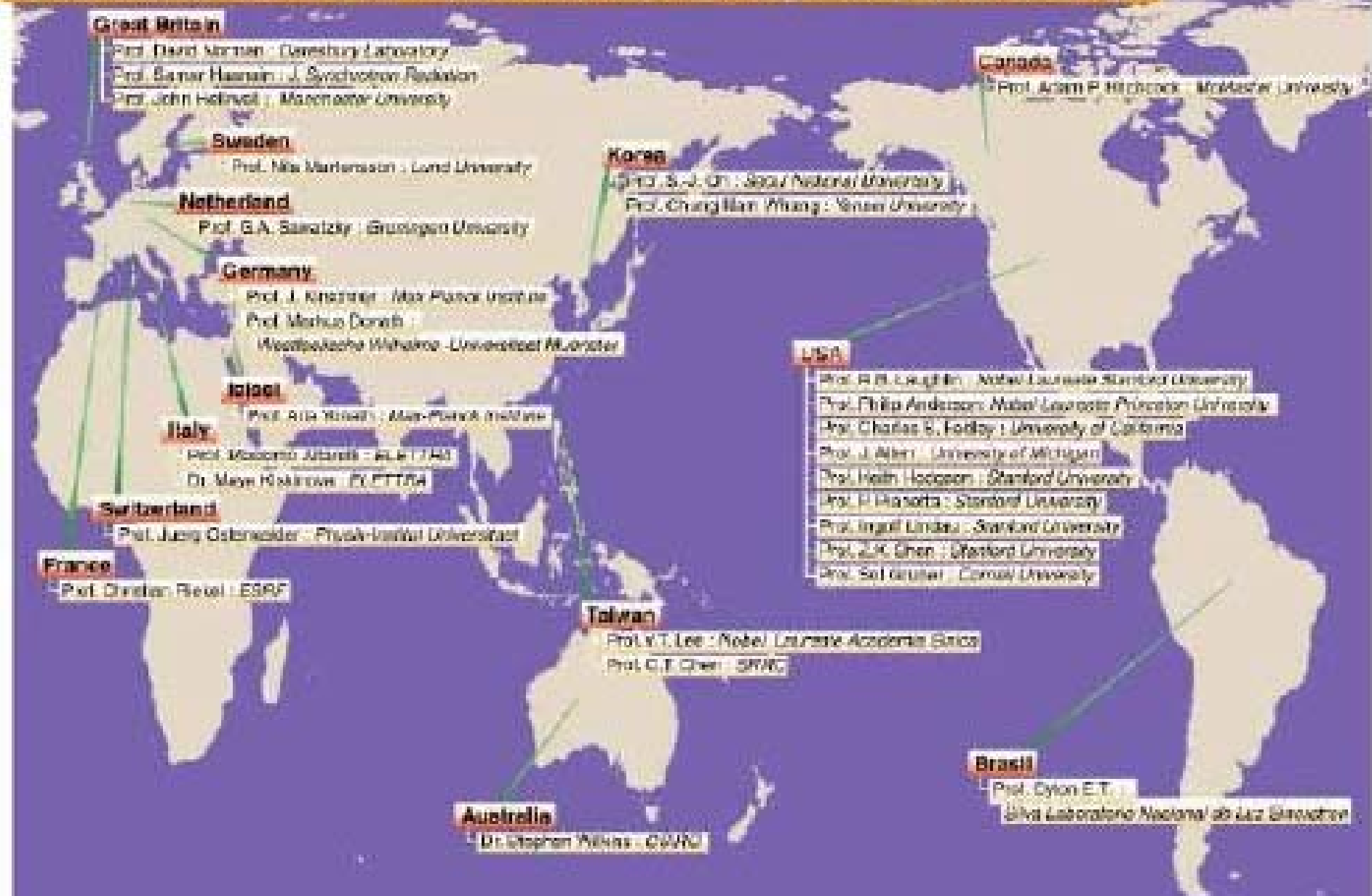
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Super SOR Light Source

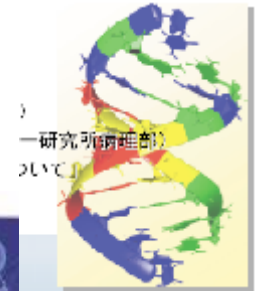


International "Letters of Support" for VUV/SX Light Source at U. Tokyo

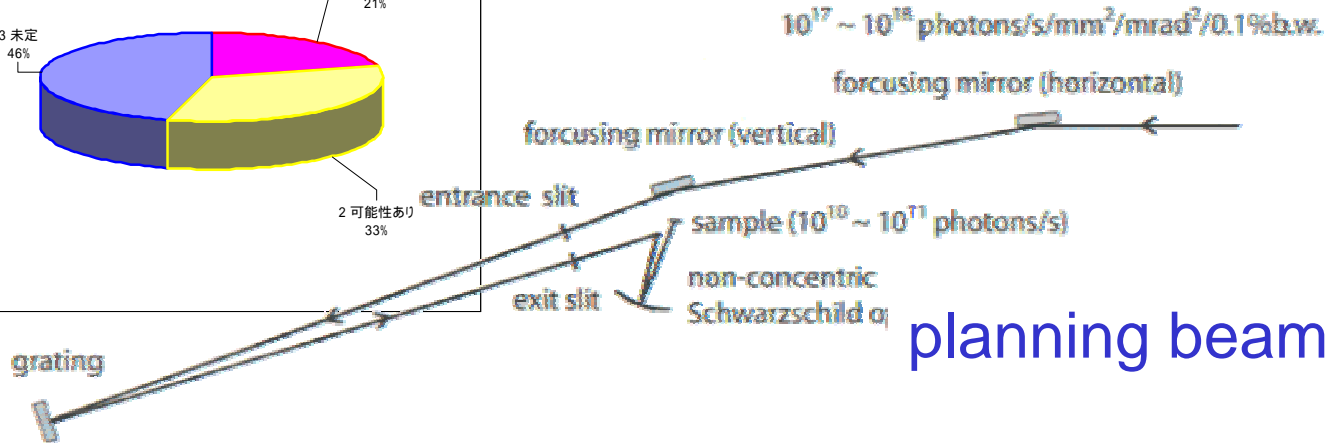
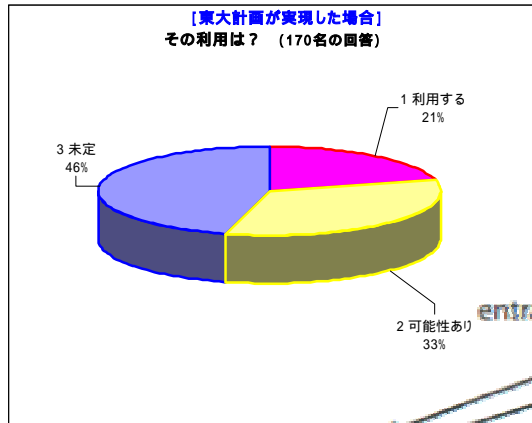




justifying funding
 nano-technology
 environmental science
 life science,



organizing users



planning beamlines

Outline

1. Mott insulators
2. Metal-insulator transitions
3. High-temperature superconductors
4. One-dimensional systems
5. Magnetic semiconductors
6. Heavy Fermion systems

General references:

M. Imada, A. Fujimori, and Y. Tokura: *Metal-Insulator Transitions*, Rev. Mod. Phys. **70** (1998) 1039.

N. Tsuda, K. Nasu, A. Fujimori and K. Siratori: *Electronic Conduction in Oxides* (Springer-Verlag, Berlin, 2000).

Transition-metal compounds

