

Summary of Linkage Infrastructure, Equipment and Facilities Proposals

South Australia

The University of Adelaide

LE0882493 Dr J Brugger; A/Prof CT Chantler; Prof AM Bond; A/Prof BK O'Neill; Prof D McNaughton; Prof AR Gerson; Dr CG Ryan; Dr W Liu; Dr SP Best; Prof L Spiccia; Prof P Mulvaney; Prof RN Lamb

Approved Project Title **High-accuracy spectroscopy under extreme conditions: combining novel synchrotron and laboratory-based spectroscopy**

2008 : \$ 700,000

Primary RFCD 2403 ATOMIC AND MOLECULAR PHYSICS; NUCLEAR AND PARTICLE PHYSICS; PLASMA PHYSICS

Partner Organisations & Collaborating Organisations

The University of Adelaide
The University of Melbourne
Monash University
University of South Australia
CSIRO
Australian Synchrotron

Administering Organisation The University of Adelaide

Project Summary

This project aims at maintaining the leading position of Australia in nationally important fields such as ore and environmental geology, ore processing and metallurgy, nano- and bio-technology. This project aims to establish an integrated set of state-of-the-art, often unique and revolutionary new tools, taking in particular advantage of local innovation in instrumentation and spectroscopy theory, of the investment in major facilities (Australian Synchrotron). By improving cross-disciplinary links among research groups interested in in-situ spectroscopy (Earth Sciences, Physics, Chemistry, Biological Sciences, Biochemistry, Biomedicine, Engineering), this application will result in major scientific and industrial advances.