

Welcome to the ARCS IDT Meeting

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- Past – Get Money.
 - From a concept (Caltech Mtg. April 30)
 - To a proposal (Submitted July 7)
 - To funding at the full request (Sept. 15).
- Present – Develop a project plan.
 - Hardware specifics will await information from Canada (expected Oct. 31?)
 - **Software: Focus of Today's Meeting**
Scope, Specifications, Structure
- Future – Get Going.
 - IDT approval of project plan and full WBS
 - Scope of ARCS science.

All Software Tasks

- Instrument Control (better seen as a hardware task)
- Data Acquisition and Storage
 - Data acquisition is part of SNS infrastructure (Rick Reidel will handle it)
 - Archiving not yet planned
- Real Time Data Visualization
 - Previously discussed as SNS infrastructure
 - Now responsibility of IDTs?
 - Use of commercial packages (e.g., Matlab, IDL)?
- **Today: Data Analysis**
 - $S(\vec{Q}, \omega)$ (Nagler, Osborn, Loong)
 - Scattering simulations and models (Fultz, McQueeney)

Goals of Today's Workshop

- Formulate Architecture
 - *This morning*: Think about key data structures and functions, e.g., backgrounds, calibration functions, dispersion surfaces, graphing, $S(\vec{Q}, E)$, Hamiltonian, dynamical systems...
 - *This afternoon*: Draw structures boxes and arrows...
- Formulate Tasks and Teams
 - $S(\vec{Q}, \omega)$ Approach
Steve Nagler, Ward Beyermann
 - Scattering Simulations and Modeling
Brent Fultz, Ray Osborn, Rob McQueeney
 - Coordinate with others
 - * ISIS group during January shutdown
Toby Perring, Steve Bennington
 - * How can you contribute to the project?
- How will we develop the ARCS science plan?
 - Too much for today!
 - Need to educate some IDT members, such as me.