Fusion Energy Science (Jeff Candy, General Atomics)

Focus on *version* reproducibility, not *bit* reproducibility

Community tolerance will affect both version and bit reproducibility

What defines *acceptable reproducibility*?

Community threshold for tolerating unreproducible results
Threshold for AI/QIS will probably be much lower

What limits reproducibility?

Lack of model and case documentation, pressure of "accelerated science",
journal standards, lack of author committment

What techniques do you use to test reproducibility?

Revision control, regression testing, code-code comparisons, documentation, portability

What can facilities like NERSC do to help?

Facilitate open data management

GENERAL ATOMICS