

Thermal Cycling Staves

- UK Stave #24 (known s/c on EB, two LHS tapes)
- Stress Tests
 - Thermal cycling
 - Liquid N2 test
- Functionality tests after stress tests.

Thermal Cycling Staves

- 100 cycles from -40C to +40C
- Cycle period: 3 hours
- Ramp times: approx. 30 minutes
- Electrical tests performed with robot before and after cycles: no failures.

Liquid N2 Insertion

- Many cycles of liquid N2 insertion with mini-staves.
 - No electrical failures observed.
- First attempt at liquid N2 insertion failed because plastic box fell apart while pouring in the liquid N2.
- More success with sturdy wooden box!



Functionality tests after liquid N2

- Careful visual QC
 - No obvious changes
 - Possibly very small increase in delamination at corner (very difficult to see).
Not a failure.
- Electrical test with robot performed for both sides: **no failures.**
- Will send stave 24 to QMUL for thermal QC with IR camera.