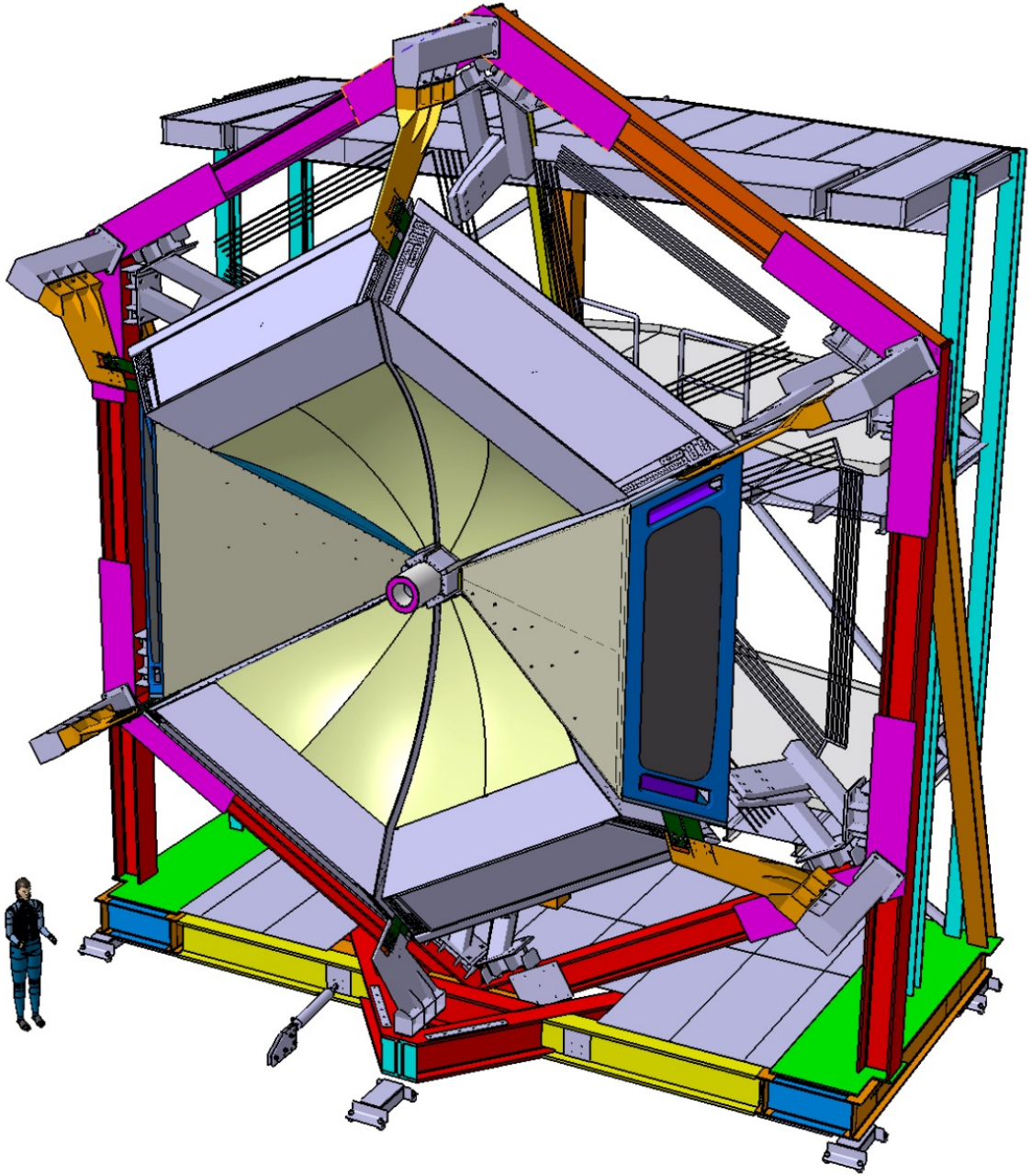


CLAS12-RICH Status-Report

September 5th 2014

Latests

AEROGEL:

Investigating X-ray camera analysis
Dark+dry box ready
Optimizing box humidity control
Upgrading automatize test-bench motor control
Rotating bench delivered
Nest step: - Systematic measurements

MIRRORs:

Measures of surface roughness done in Frascati to be validated by Media-Lario
Preliminary results from D0 measurement done in Frascati:
- strong aberration at the edges of the CMA samples
- no measurable D0 for Riba samples

Surface measurements of Riba samples done at Ferrara
Next step: - Coating at ZAOT and SESO-Thales
- 2nd CMA demo on Marcon mandrel

Latests

PHOTON-DETECTORs:

Detailed analysis of H12700 ongoing at Jlab

~ 25% better photon yield vs H8500

worse SPE signal vs H8500

(better QE, worse collection efficiency ?)

ELECTRONICS:

Delivery of prototype boards expected soon

Meeting next week to review status and plan electronic tests

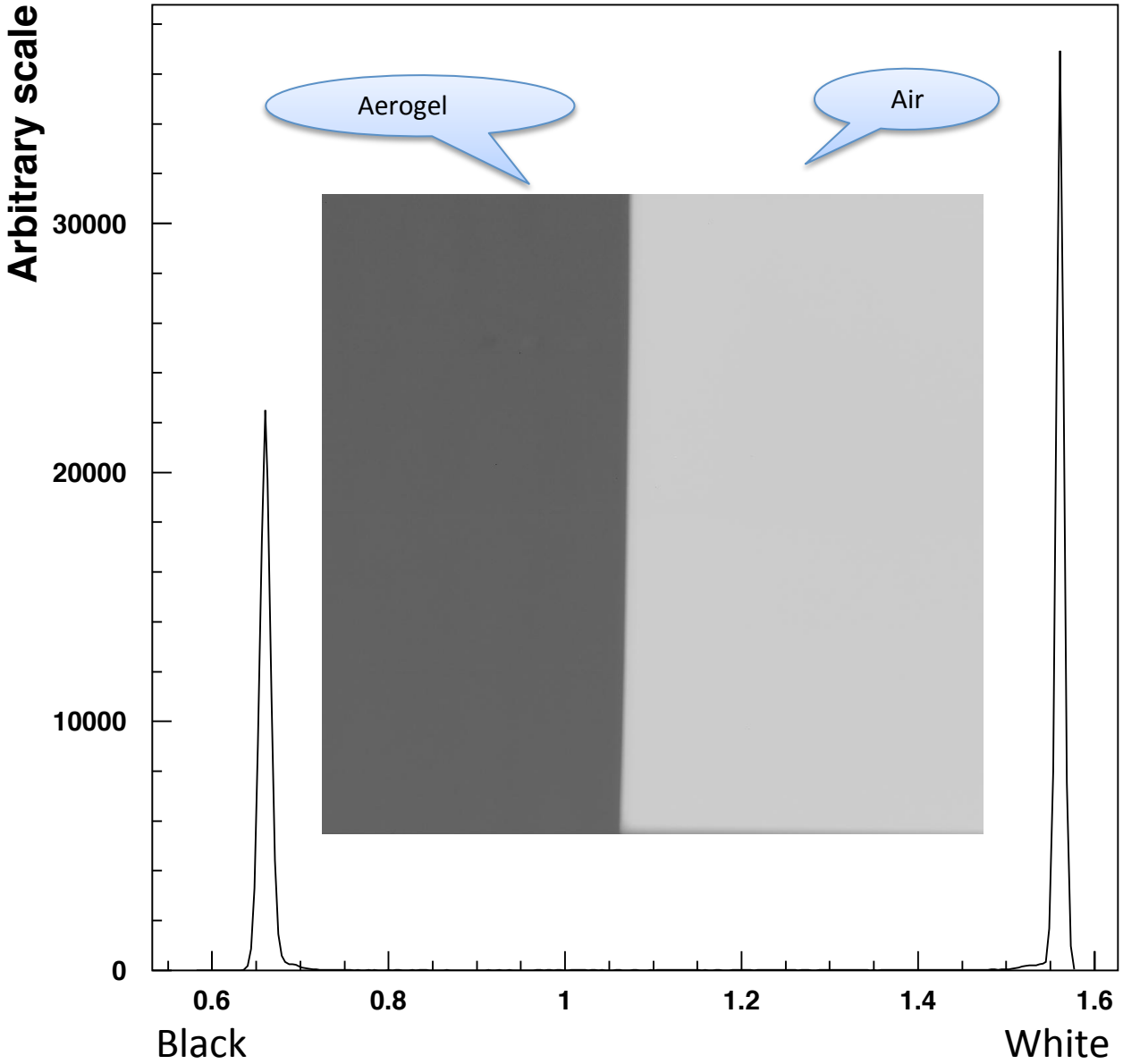
SIMULATIONs:

RICH implementation into GEMC 2.0 ongoing

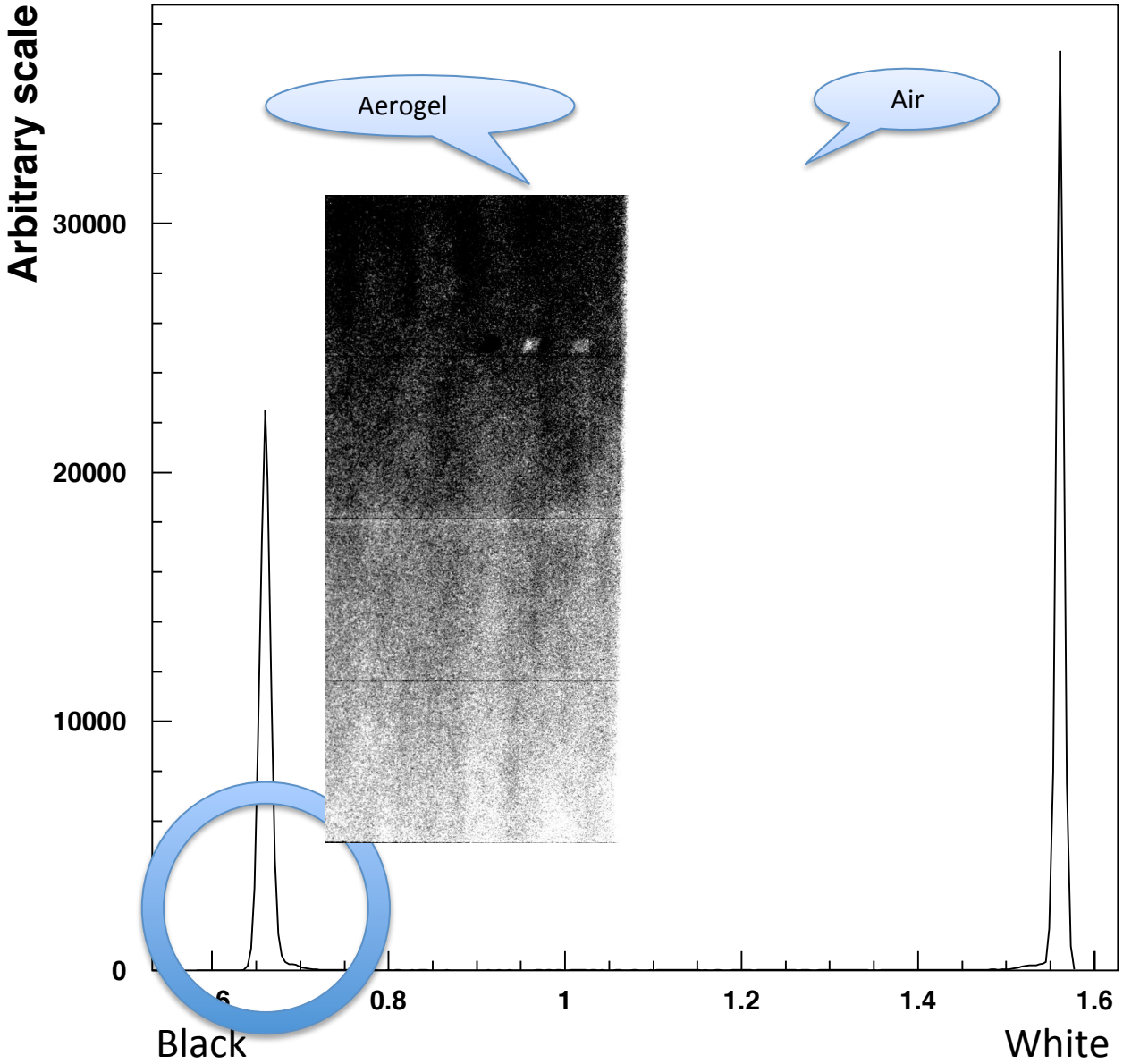
WEB PAGEs:

New link on the CLAS12 wiki (reorganized RICH Review page)

Aerogel: X-ray Camera Scan

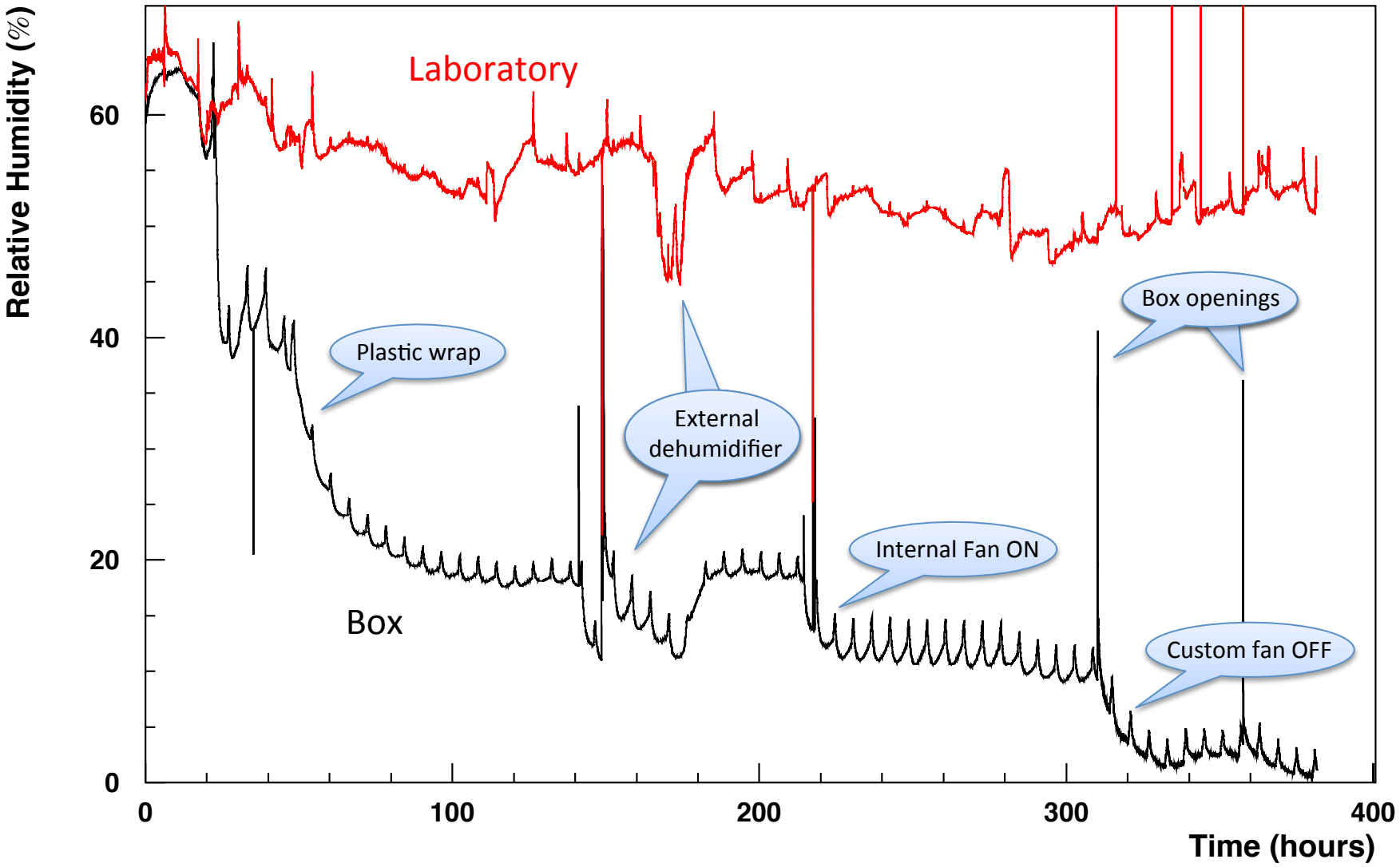


Aerogel: X-ray Camera Scan

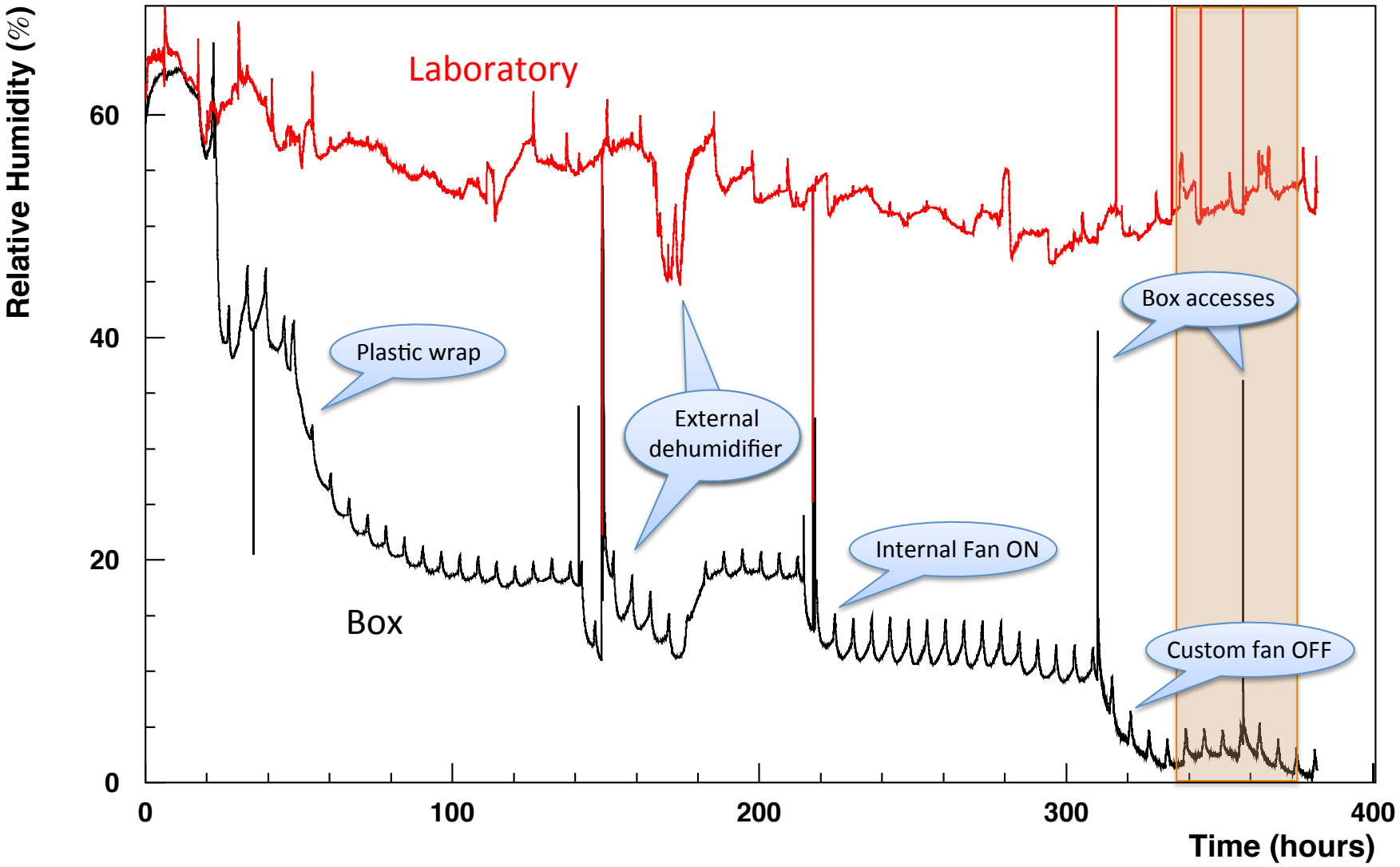


Aerogel: Black+Dry Box

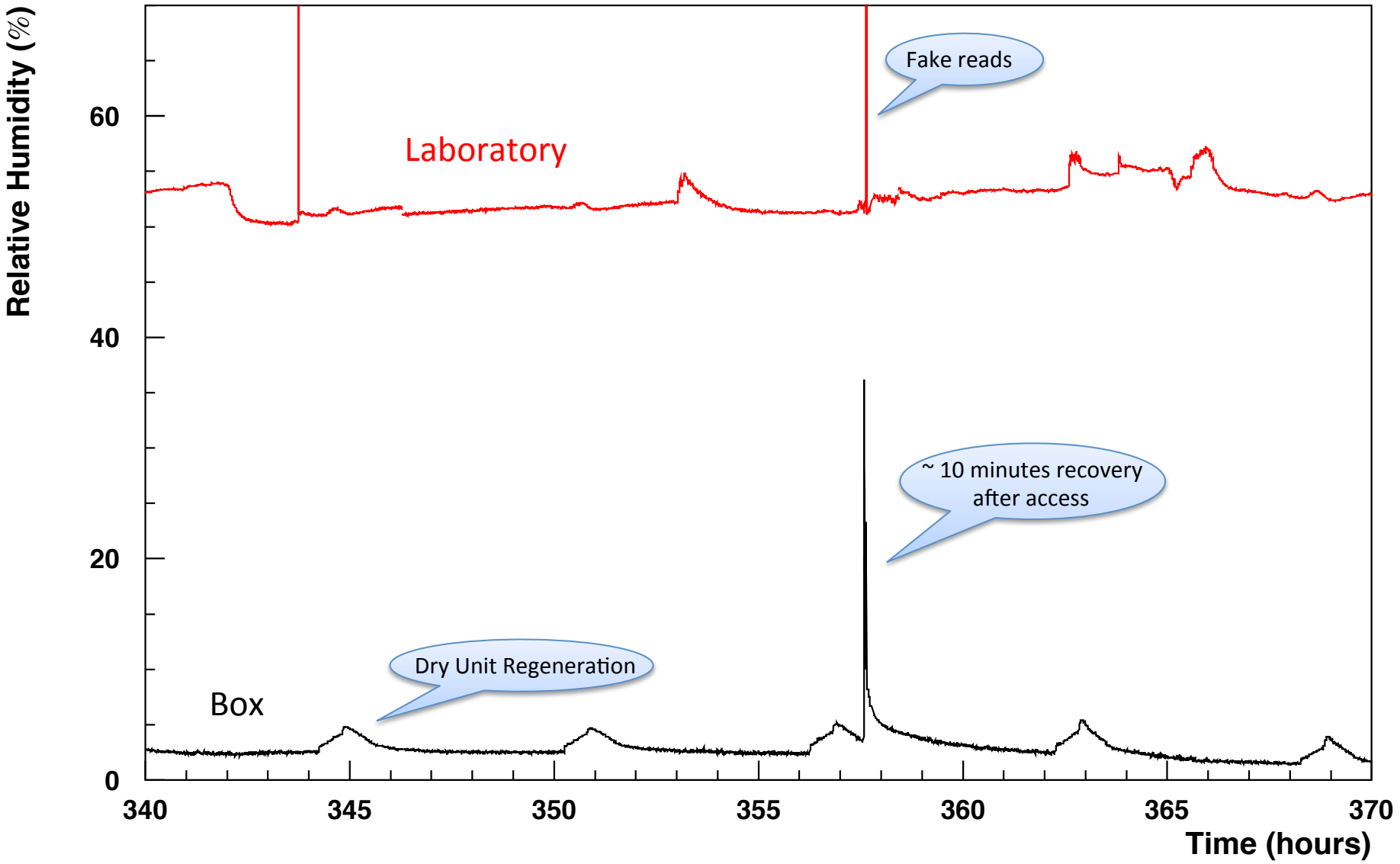
Aerogel: Humidity Control



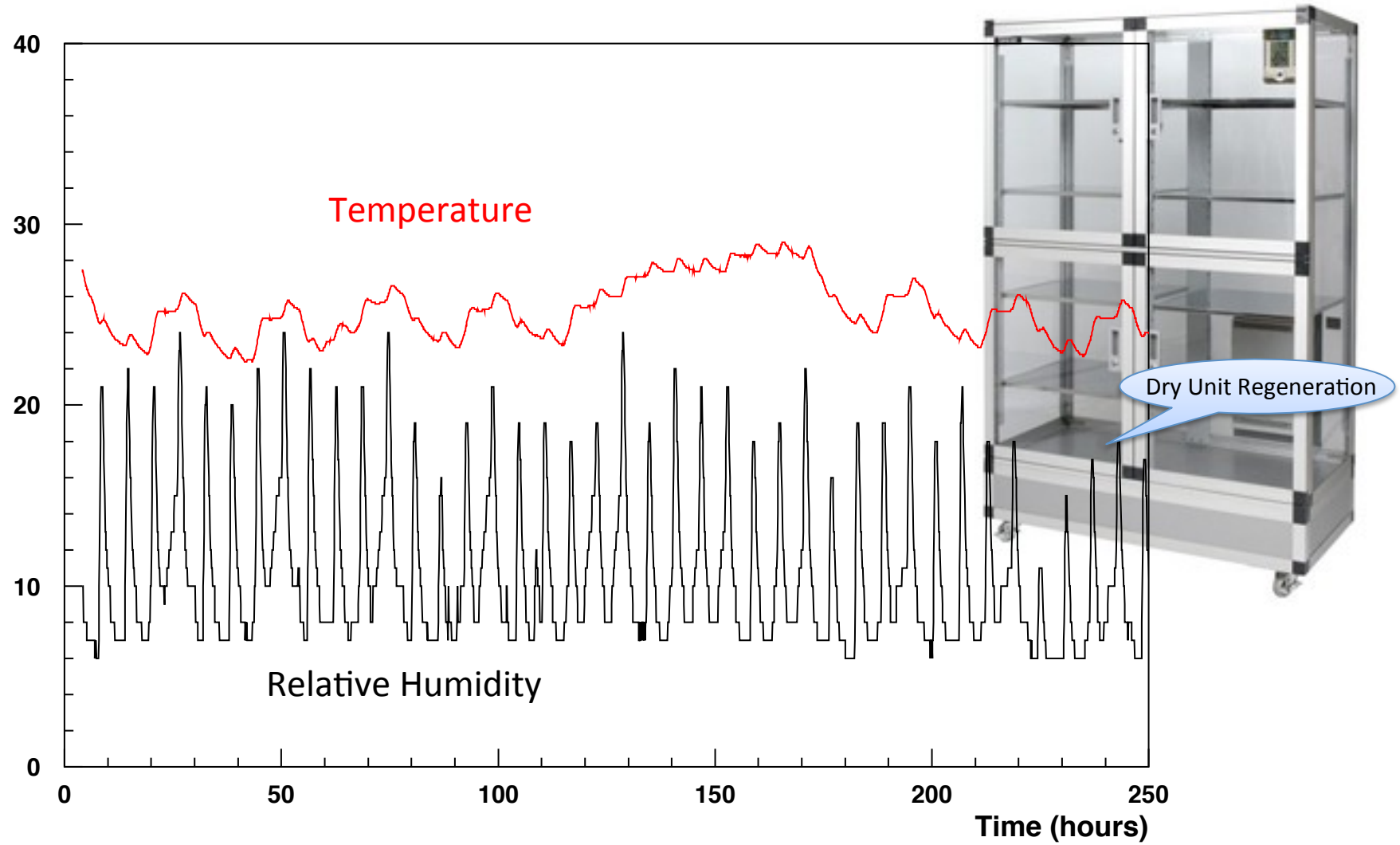
Aerogel: Humidity Control



Humidity Control



Aerogel: Dry Cabinet



3% stable humidity during winter

Possible improvements: external dehumidifier + internal fan