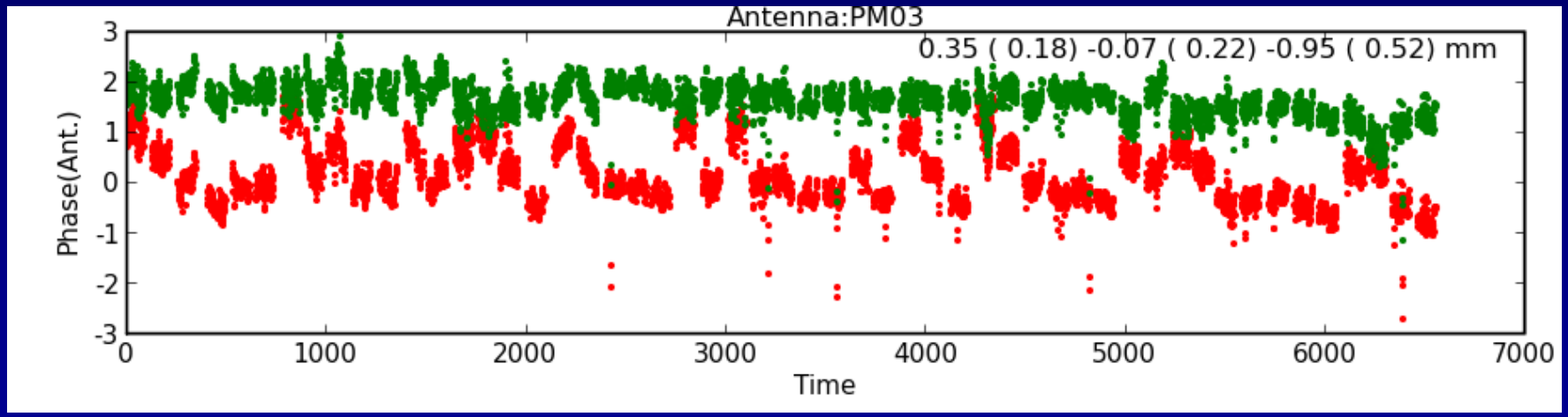
ALMA STATUS – Sept 2009

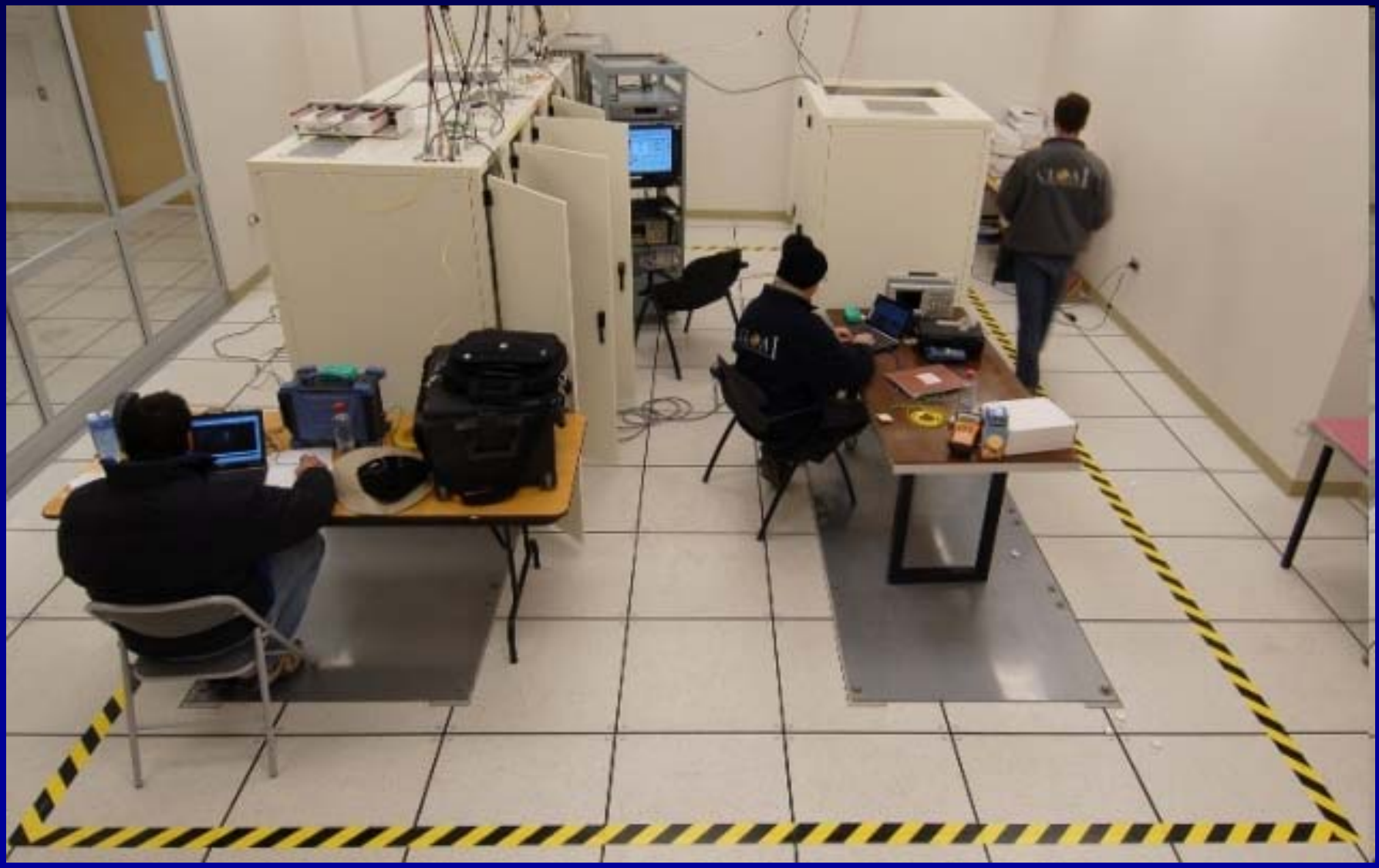
Plot show phase on a series of quasars all over the sky. Red – raw data: Green – after fit for baseline.



Construction

- AOS building accepted.
- Initial set of Local Oscillator systems installed and tested.
- Second Quadrant of 64-input Correlator also in place, being cabled-up.
- First foundation is ready for an antenna.
- Delays to computer room at the OSF which is needed for the archive.

LO system under test
This can support 16 antennas



Second Quadrant + reviewers

We will probably have to move the northern-most pad for security reasons

View towards Bolivia – Jama road in foreground

Northern Access gate

Foundation for Multi-fuel Generator at the OSF

AEM antenna in 3 parts


ACMH

A pile of water vapour radiometers in their packing cases

Testing

- AIV work on PM03 (Melco #3 antenna) essentially complete.
- Lots of work with the interferometer.
- Encouraging early test results from WVR's
- See http://www.alma.cl/~science/Test_Reports/

For some example test reports.

www.alma.cl

The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership of Europe, North America and East Asia in cooperation with the Republic of Chile. ALMA is funded in Europe by the European Organization for Astronomical Research in the Southern Hemisphere (ESO), in North America by the U.S. National Science Foundation (NSF) in cooperation with the National Research Council of Canada (NRC) and the National Science Council of Taiwan (NSC) and in East Asia by the National Institutes of Natural Sciences (NINS) of Japan in cooperation with the Academia Sinica (AS) in Taiwan. ALMA construction and operations are led on behalf of Europe by ESO, on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI) and on behalf of East Asia by the National Astronomical Observatory of Japan (NAOJ). The Joint ALMA Observatory (JAO) provides the unified leadership and management of the construction, commissioning and operation of ALMA.