

MICE Tracker Status









- Tracker 1 readout commissioned at RAL (R8).
- Cosmic ray data taken.
- Two bugs in decoding of fibre map <-> electronic channel found and fixed.
- Light yield good.
- Hardware moved to a new lab at RAL.
- Tracker 2 built.



Tracker 1 Readout

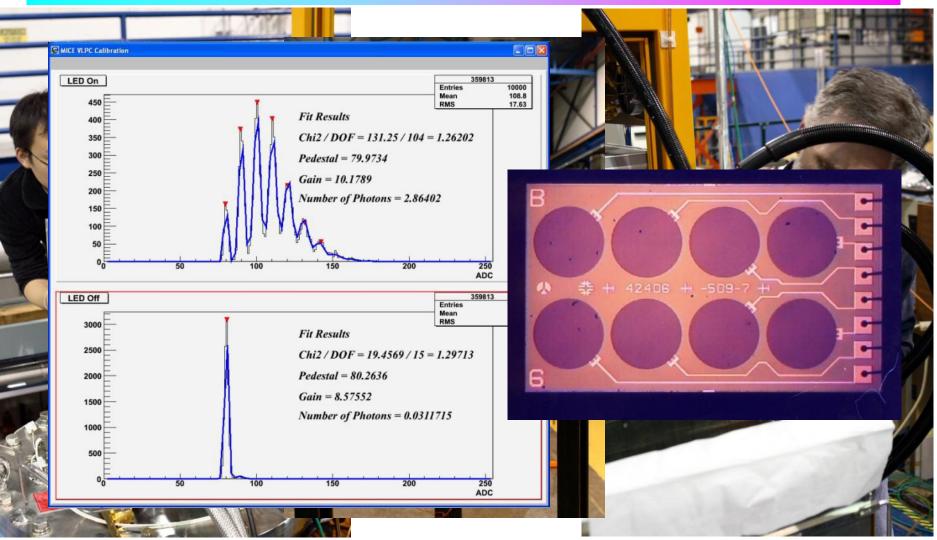






Tracker 1 Readout

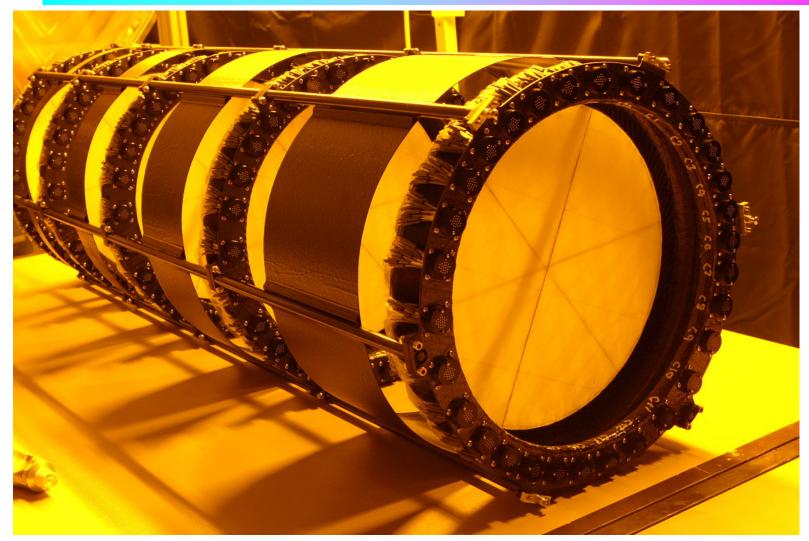
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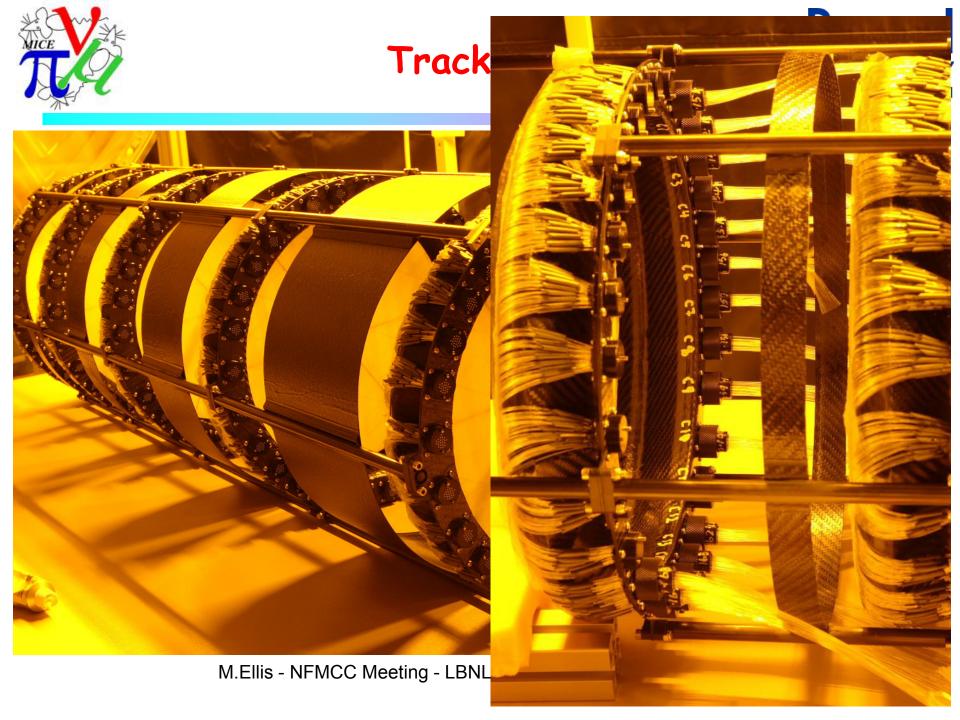


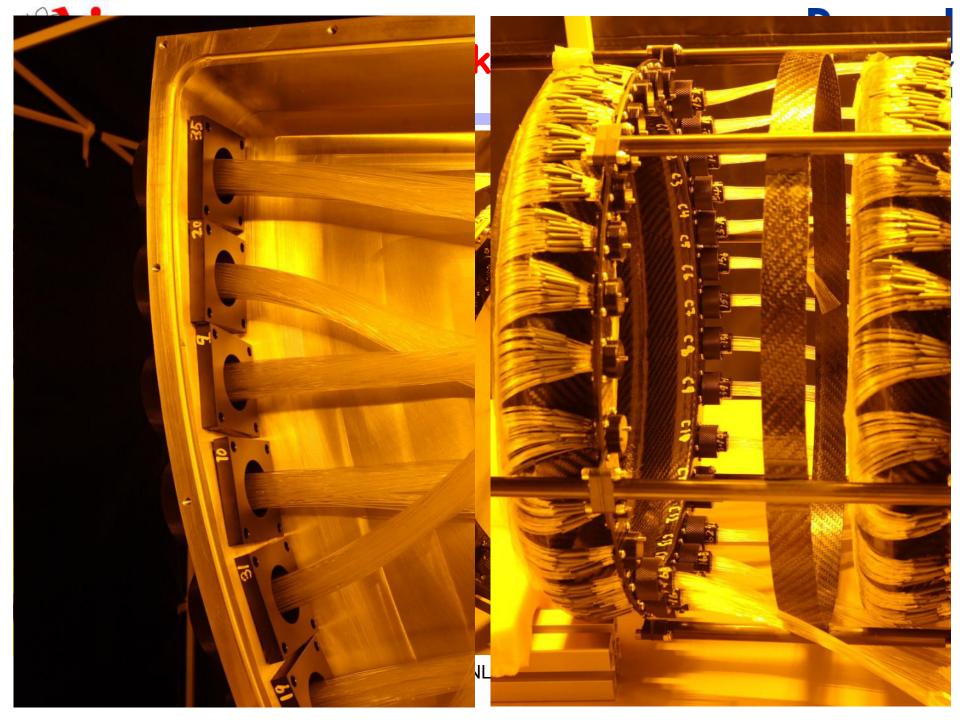


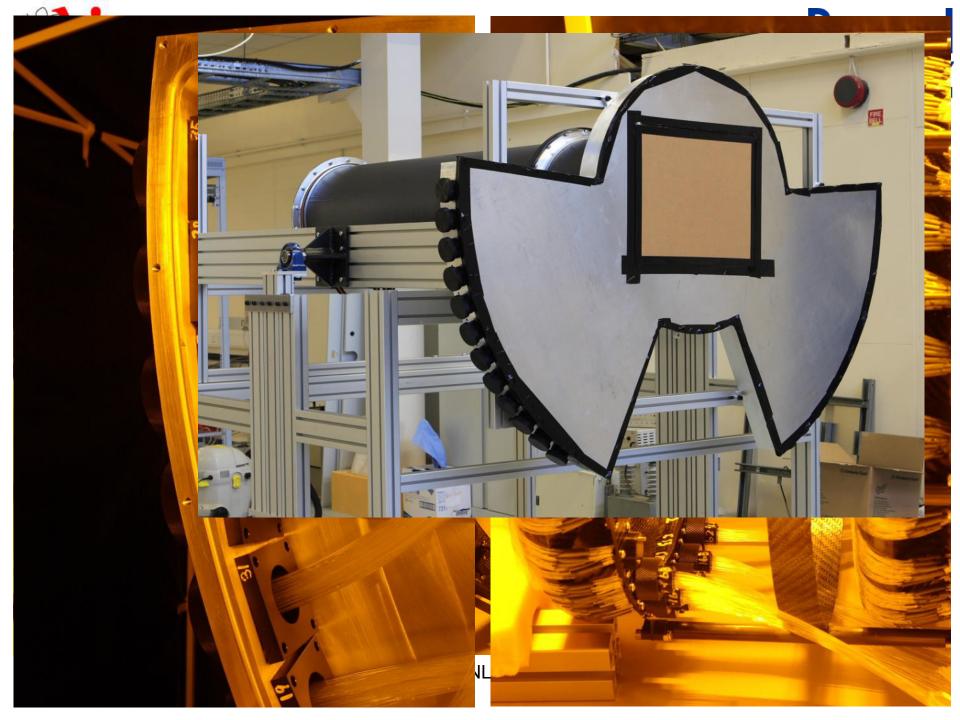


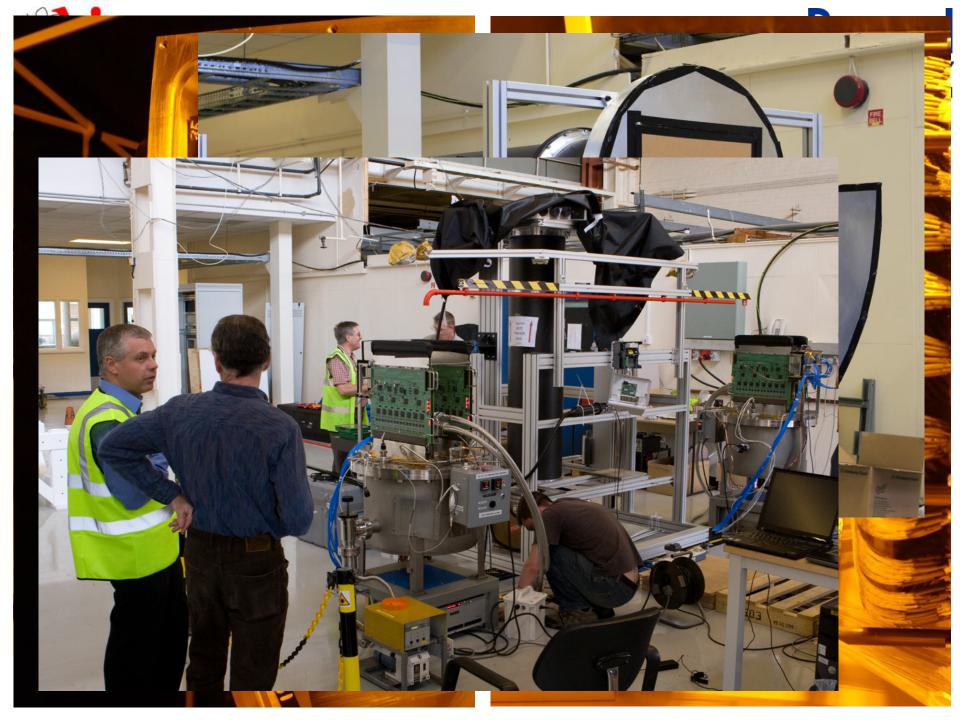












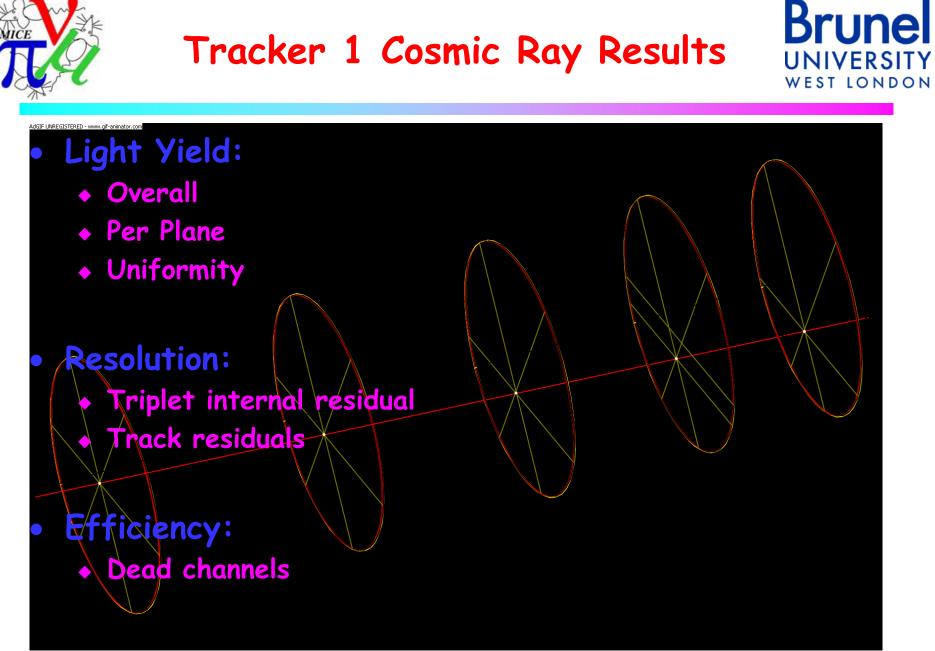








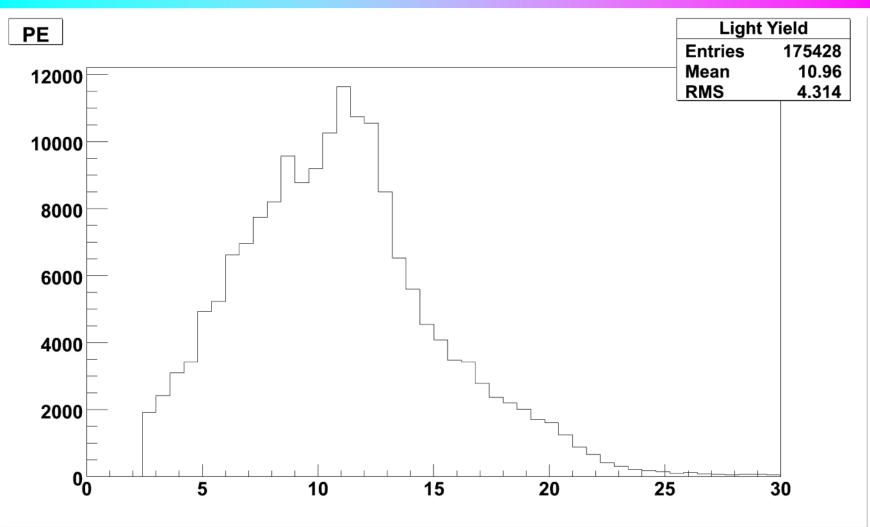
- Tracker facing vertically.
- Two trigger scintillators recycled from the test at KEK in 2005 (later replaced with new scintillators from Fermilab).
- One inch of lead beneath the tracker to select higher energy cosmics.
- Data taking intially performed using Excel/VB setup developed at Fermilab and used for debugging and testing.
- Later moved to EPICS for slow control (AFE control, temperature monitoring, etc).
- Moved to DATE system (MICE DAQ) in stand alone mode.
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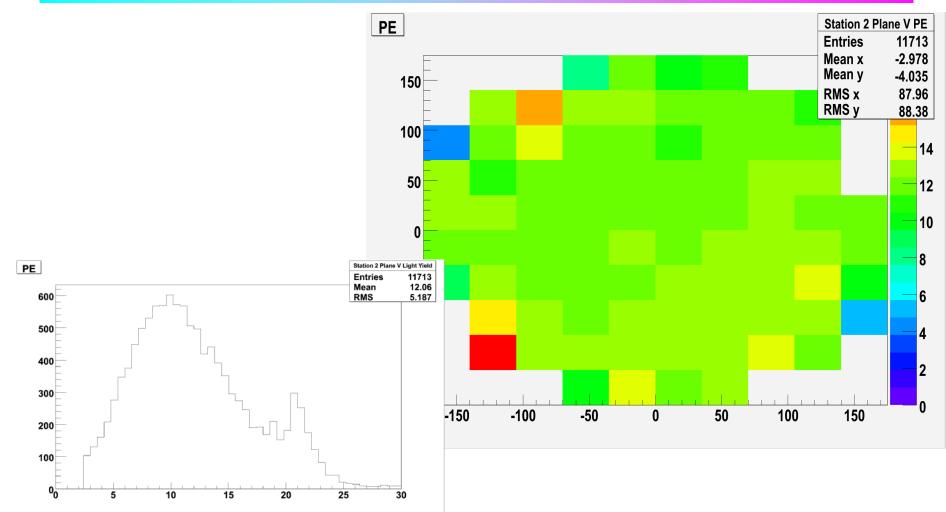
Tracker 1 Light Yield





Tracker 1 Station 2 Plane V





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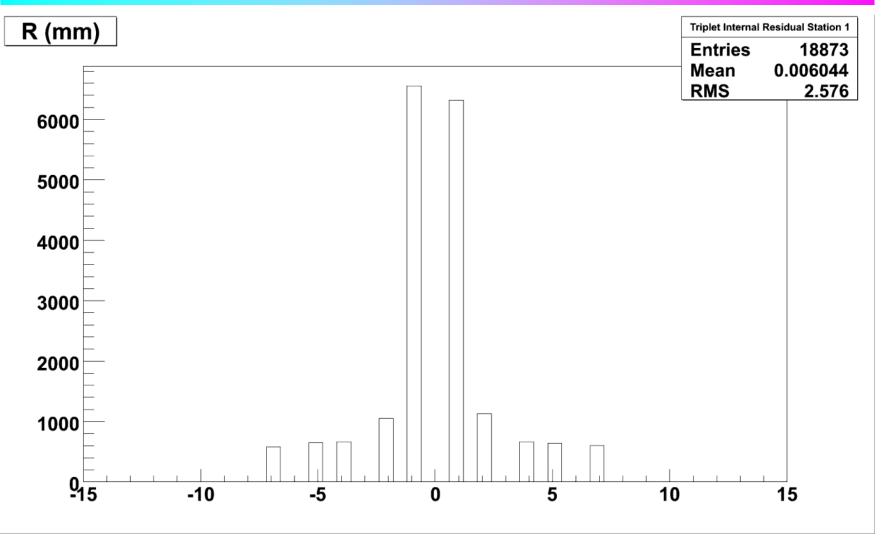
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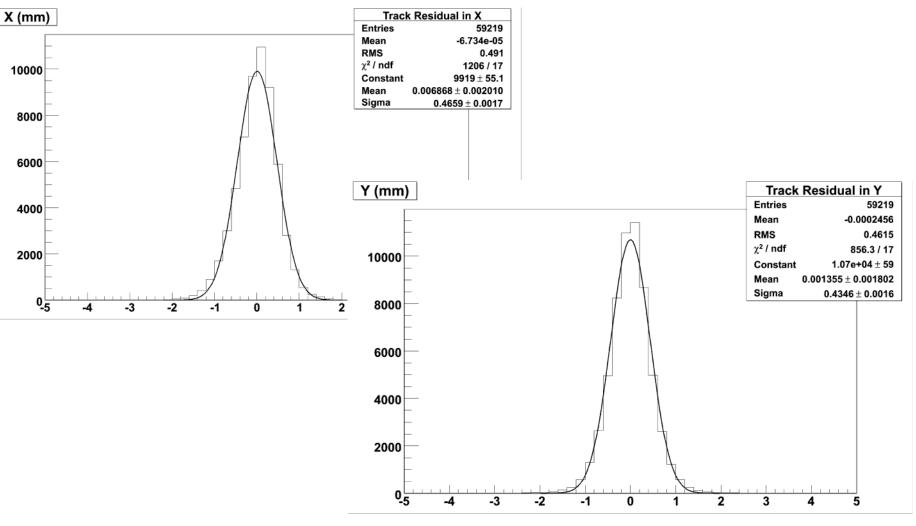
Triplet Internal Residual







Track Residuals

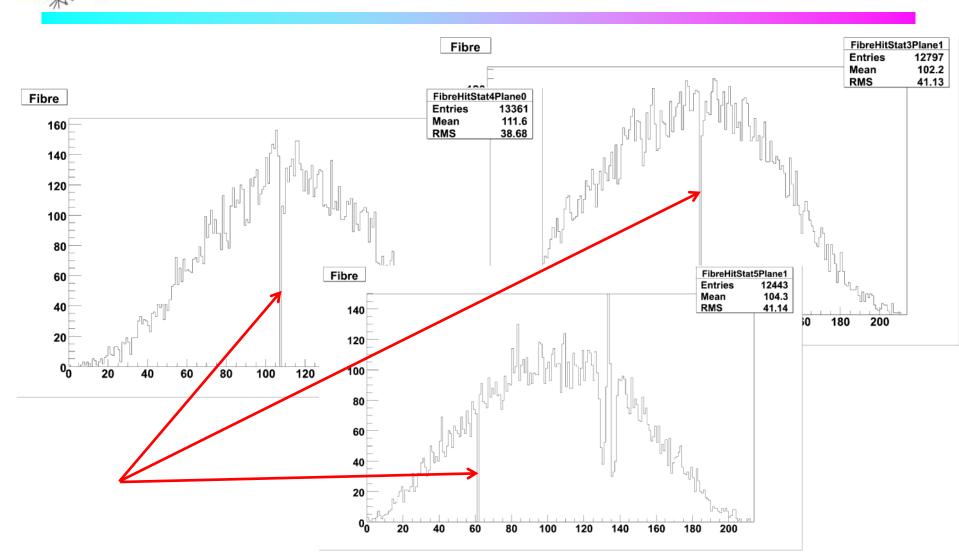


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- Tracker 1 hardware has been moved to lab 7 in R1 for continuing tests.
- Tracker 2 has been assembled.
- Tracker 2 readout being finalised at Fermilab, to be shipped to RAL in the next few weeks.
- Tracker 2 will be commissioned and cosmic rays recorded as for tracker 1.
- Readout for both trackers using the DATE DAQ software will be tested and integrated into the main MICE DAQ prior to the trackers and readout systems being moved to the MICE hall (when the spectrometer solenoid arrives).