

CERN-RRB-2009-026

15 APRIL 2009

# PRINCIPAL LHCC DELIBERATIONS

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28<sup>TH</sup> MEETING OF THE ATLAS RESOURCES REVIEW BOARD

28 APRIL 2009

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SCIENTIFIC SECRETARY, LHCC

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**GENERAL**

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This document summarises the principal LHCC deliberations concerning ATLAS at the Committee's sessions in November 2008 and February 2009.

The ATLAS plan for the 2008-2009 shutdown period is reasonable. The Committee considers that it is realistic for ATLAS to be completely ready for LHC beams in 2009.

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**CONCERNS FROM THE PREVIOUS ATLAS RESOURCES REVIEW BOARD**

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<b>SUB-SYSTEM</b>	<b>CONCERN</b>	<b>STATUS</b>
Cathode Strip Chambers	High-rate performance of the read-out modules for the Cathode Strip Chambers (CSCs).	The read-out for the CSCs is being improved and new firmware is expected in late spring 2009.
Front-end Transmitters	Some failure of opto-transmitters of the Semiconductor Tracker (SCT), Pixel Detectors and LAr Calorimeter.	New opto-transmitters are being produced for the SCT and Pixel Detector, while those for the LAr Calorimeter are being replaced by spare units.
Inner Detector Cooling System	Reduced operational efficiency.	Good progress was reported on the consolidation of the cooling system for the SCT and Pixel Detector.

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**STATUS OF EXPERIMENT**

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Due to some failures, the front-end opto-transmitters of the Semiconductor Tracker (SCT), Pixel Detector and LAr Calorimeter are being exchanged. Replacement of the LAr low-voltage power supplies is also advancing well. Some cooling coils of the SCT and Pixel Detector, which have been found to be leaking, are also being repaired. These issues are being monitored by the LHCC. Moreover, the read-out for the Cathode Strip Chambers (CSCs) is being improved and new firmware is expected in late spring 2009. The ATLAS cosmic-ray runs have been extremely efficient, and there is good agreement between data and simulation. ATLAS has a reasonable commissioning plan with sufficient contingency.

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**SOFTWARE AND COMPUTING**

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The ATLAS computing model is adequate and good progress was reported on the offline software, and on the detector alignment and calibration.