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31 OCTOBER 2008

# PRINCIPAL LHCC DELIBERATIONS

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25<sup>TH</sup> MEETING OF THE ALICE RESOURCES REVIEW BOARD  
12 NOVEMBER 2008

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SCIENTIFIC SECRETARY, LHCC

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**GENERAL**

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This document summarises the principal LHCC deliberations concerning ALICE at the Committee's sessions in May, July and September 2008.

The LHCC congratulates the ALICE Collaboration for successfully completing the installation of the detector and for preparing the experiment and the entire data chain for first LHC beams. The completion of the very complex and numerous tasks was made possible by the outstanding planning and efficient implementation by the ALICE Collaboration.

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

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<b>SUB-SYSTEM</b>	<b>CONCERN</b>	<b>STATUS</b>
Photon Multiplicity Detector (PMD)	Concerns remain on the detector being able to meet its read-for-installation milestone.	A reduced number of PMD modules were installed for the LHC start-up. The installation of the PMD will be completed during the 2008-2009 shut-down period.
Transition Radiation Detector (TRD)	Gas leak in the wire chambers resulting in delay of TRD installation.	A reduced number of TRD modules were installed for the LHC start-up. The installation of the TRD will be completed during the 2009-2010 shut-down period.
Photon Spectrometer (PHOS)	Condensation on the PHOS requires re-design of the detector enclosure, resulting in delay of PHOS installation.	One PHOS module was installed for the LHC start-up. The remainder will be installed during the upcoming shut-down periods until 2010-2011.

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**EXPERIMENT SUB-SYSTEMS**

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**COMMISSIONING**

The commissioning of the experiment, together with the initial calibration and alignment of the detector, has progressed well. Cosmic-ray runs have been undertaken, consisting of global commissioning, calibration and alignment runs. Particle fluxes through the ALICE detector were

observed during the LHC TI2 dump tests in June 2008 and the TI2 injection tests in August 2008 and from the first circulating beams in September 2008.

#### **2008-2009 SHUT-DOWN**

Cabling on the MINIFRAME, which carries the services to the ALICE central detector, will be modified during the 2008-2009 shut-down period in order to improve access to the Time Projection Chamber (TPC). During the 2008-2009 shut-down period, repairs to the TPC read-out electronics will be carried out and the cooling fluid flow regulation to individual circuits of the Silicon Pixel Detector (SPD) will also be improved. Moreover, the Photon Multiplicity Detector (PMD) and DAQ / High-Level Trigger (HLT) will be completed during the 2008-2009 shut-down period and additional modules of the Transition Radiation Detector (TRD), Photon Spectrometer (PHOS) and Electromagnetic Calorimeter (EMCal) will also be installed.

#### **CALORIMETERS**

The LHCC is reviewing the Electromagnetic Calorimeter (EMCal) Technical Design Report. Following further deliberations, the LHCC will be providing its recommendation at one of its upcoming sessions.

#### **COMPUTING**

The global short-fall for the computing resources remains about 40% of the pledged funding for the 2009-2011 period. Proposals to address this short-fall are being evaluated and the LHCC will monitor progress in future sessions.