

Implementation of the control and supervision of ALICE ZDC positioning systems

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The ALICE Zero Degree Calorimeters (ZDC) have been installed to either side of the LHC IP2 in the machine tunnel next to the dipole magnet D2. The calorimeter modules are mounted on a special table equipped with a mechanism to lower the modules away from the beam orbit during injection and acceleration. During stable operation the modules can be raised individually to be aligned with the beam orbit. The horizontal clearance between ZDC modules and beam pipe will be only about 3 mm. Anti-collision switches are therefore installed to protect the beam pipes against accidental damage. The movement of the calorimeter modules and the protection switches are remote controlled by the ALICE ZDC positioning system.

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