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Operational experience with the ALICE ITS

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ALICE (A Large Ion Collider Experiment) is the dedicated heavy–ion ex- periment at the CERN LHC designed to address the physics of strongly–interacting matter at extreme energy densities, where the formation of a de-confined phase of matter, the quark–gluon plasma (QGP), is expected. The innermost detector of ALICE is the Inner Tracking System (ITS), a six-layer silicon vertex detector that provides primary vertex reconstruction as well as secondary vertex reconstruction of heavy-flavour and strange par- ticle decays, particle identification and tracking of low-momentum particles and precise determination of the impact parameter.
The ITS cylinder is based on three different technologies and includes from the innermost radius of 3.9 cm to the outermost radius of 43 cm two layers of Silicon Pixel Detector (SPD), two Silicon Drift Detector (SDD) layers and two Silicon Strip Detector (SSD) layers.
In this report, the status and performance of the ALICE ITS detector dur- ing Run2 are summarized and the operational experience and requirements to ensure optimum data quality and data taking efficiency are described.

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