## Strangeness in Quark Matter 2017







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## Status Report on Inner Tracking System Upgrade of ALICE

Friday, 14 July 2017 17:05 (20 minutes)

The ALICE Collaboration is preparing a major upgrade of the ALICE detector, planned for installation in the second long LHC shutdown. The construction is expected to be completed by 2020 for data taking until 2029. A key element of the ALICE upgrade is the construction of a new, ultra-light, high-resolution Inner Tracking System (ITS).

With respect to the current ITS, this upgrade is aiming at a better position resolution (5 micron), a lower material budget (0.3% X0) and a faster readout (up to 100 kHz in Pb-Pb collisions). This will be obtained by seven concentric detector layers based on an advanced Monolithic Active Pixel Sensor (MAPS) chip, with a pixel pitch of 30x30um^2. The general layout and main components of the new ITS, a summary of the R&D activities, the current status and an outlook will be presented.

## List of tracks

Upgrades and new experiments

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Session Classification: Parallel Upgrades

Track Classification: Upgrades and new experiments