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Charged particle identification (PID) for SuperB

Charged particle identification (PID) is a key input for the physics program of the SuperB experiment. In the barrel region, the main detector for K/π separation will be the 'Focusing Detector of Internally Reflected Cherenkov light' (FDIRC), the successor of the successful BaBar DIRC, which camera has been completely re-designed. In addition, R&D is ongoing to add a detector on the forward side of SuperB to extend the PID coverage. This innovative time-of-flight detector will use new electronics accurate at the 10-ps level.

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Classification de thématique: Detector R & D and data handling