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The Status of the CODEX-b Experiment

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The High Luminosity LHC will be a tremendous opportunity to search for long-lived particles (LLPs) from an extended hidden/dark sector, feebly connected to the known SM sector. Such LLP searches will require special detectors that are shielded against SM backgrounds, and are therefore displaced from the proton-proton collision point. The CODEX-b detector, planned to be placed behind a thick shielding wall inside the LHCb cavern, around 25m from the LHCb interaction point, provides an opportunistic solution. On the journey to the construction of the full detector, a demonstrator (CODEX-b^d) is foreseen for installation and operation during LHC Run 3. This talk will discuss the general principles of the CODEX-b detector, its prospects, and the progress being made to install the demonstrator unit.

Collaboration / Activity

CODEX-b

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