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The FoCal detector at the ALICE experiment

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The FoCal detector at the ALICE experiment at the CERN LHC is designed for studying a wide range of physics observables to probe non-linear QCD dynamics in an unexplored kinematic region. FoCal is a high-granularity calorimeter covering the pseudorapidity interval $3.4 < \eta < 5.8$, and is scheduled to start operations in Run 4. The FoCal detector design has been optimized for studying prompt photons. The separation between isolated photons and π^0 relies on the high-granularity electromagnetic detector (FoCal-E) consisting of layers of Si-pads and Si-pixels interleaved with tungsten absorbers. A hadronic calorimeter (FoCal-H) completes the detector, providing photon isolation and jet measurements. In this talk, we will present the most recent results from R&D studies and test beams conducted at CERN in summer and fall 2022.

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