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The Electromagnetic Module for an LHC Run-4 Zero Degree Calorimeter

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The Zero Degree Calorimeter (ZDC) at the LHC is primarily a far-forward hadronic calorimeter used to measure spectator neutrons from heavy-ion collisions at the LHC. In addition to spectator neutrons, an electromagnetic module within the ZDC can be used to measure far-forward photons. The Joint ZDC Project (JZCaP) is a collaboration between ATLAS and CMS groups working on R&D towards an upgraded ZDC for LHC Run-4. In this context, the poster will present design considerations, especially regarding the module segmentation, and results of prototype testing of an EM module for the ZDC.

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