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Simulation for the CLAS12 Ring Imaging Cherenkov Detector[1]
GIOVANNI ANGELINI, The George Washington University, CLAS12 RICH COLLABORATION COLLABORATION — The CLAS12 RICH detector presents a complex gematrical design to overcome several engineering challenges. The innovative hybrid-optics design reflects in a variety of photon paths, ranging from direct detection to multiple reflections with a double passage through the radiator. In this talk, we will focus on how such complex geometry has been implemented in the simulation and event reconstruction suite of the CLAS12 spectrometer, together with the other technical aspects developed in order to correctly reproduce the Cherenkov photon pattern.

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