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High performance RICH detector concept with HRPPD sensors for EIC Generic R&D

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The Yellow Report for the EIC sets the stage for designing detectors that can best meet its science goals, noting the importance of having two complementary detectors and interaction regions. The first detector, ePIC at IP6, is already well into development, while new technologies could be refined for a second detector at IP8. In this talk, I will discuss the proposed research program, which is focused on the development of the High Performance Ring Imaging Cherenkov Detector (hpRICH) for the second detector. Key features of such a device are a wide momentum coverage for PID due to the choice of radiator medium and fast timing capabilities due to the choice of photosensors, enabling time-of-flight measurements, especially for low-momentum particles.

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