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Enabling future detector technology within ePIC at the EIC

The ePIC experiment at the EIC incorporates a wide variety of detector technologies. The different technological approaches are imposed by the broad EIC physics scope and by the nature of the collider, which is asymmetric in energy and beam particles, and by the wide variety of ion species that will collide with electrons. Major parts of the experiment use novel technologies, developed for application in ePIC and with applications at major coming experiments and facilities, worldwide. The ePIC detector is, therefore, both a stimulus toward innovative detector approaches and a testbench for the implementation of novel technologies in collider experiments.

This document is to underline the value of the ePIC detector in terms of technological developments and the options for collaborative efforts that can be beneficial to fundamental studies at high energies.

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