

R&D studies and innovative technologies for the ePIC detector at EIC

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ePIC is the EIC project detector designed to cope with the whole physics scope at EIC. It is the result of a more than ten year-long effort, which includes a set of preliminary detector concepts, a robust and articulated R&D program, two advanced detector architectures presented in 2021 as response to a call by the EIC hosting laboratories. More recently, a consolidation and optimization effort has been performed resulting in the present ePIC reference design, which is characterized on a set of up-to-date and innovative detector technologies resulting both from the EIC dedicated R&D and from synergies with detector developments at CERN. ePIC is pursued by a large international collaboration continuously growing and presently consisting in 171 Institutions from USA (40 %) and all over the world. The ePIC detector is presented with emphasis on the novel approaches and the dedicated developments.

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