

Increasing Luminosity in Colliders (the crab crossing concept for an electron-ion collider)

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Abstract content

As part of the motivation for the present work we will summarize the reasoning behind a Medium Energy Electron-Ion Collider (MEIC) from the nuclear physics viewpoint, accompanied by the properties that a machine of this nature should have to fulfill the expectation of the experiments, focusing down on the high luminosity requirement and crab crossing scheme as one of the proposed ways to achieve it. We will present the basic concepts involved in designing, building and testing of an srf crab cavity prototype for the MEIC.

Summary

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