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**Detector Studies for an Electron Ion Collider** MATTHEW LAMONT, Brookhaven National Lab, EIC COLLABORATION — A proposal has been made to build an Electron-Ion Collider (EIC) in the US in the next decade, capable of running at multiple electron and ion energies and capable of ion species up to Uranium. One of the important aspects of this programme is the ability to have a detector which is suitable for all energies and species. It must also be able to perform a number of difficult measurements, notably including very forward lepton and ion measurements. In this presentation I will outline the MC studies performed with the aim of designing a detector suitable for use at an EIC.

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