Using the 2nd EIC Interaction region to detect nuclear fragments

Barak Schmookler







Conceptual design for 2nd EIC Interaction region contains a secondary focus in the forward spectrometer



Small dipole covering the range between the endcap and Roman pots

Conceptual design for 2nd EIC Interaction region contains a secondary focus in the forward spectrometer





Л

Where the EIC can potentially contribute



in the detector area. This will allow for clean

used to study the level-structure of the isotopes.

detection/identification of these gamma rays, which can be

Acceptance for fragments in IP6 and IP8

1st interaction region

2nd interaction region



Each point is an individual isotope. All known and potential isotopes which come from a combined *NNDC* and *LISE++* database are included. Assuming a RP position resolution of 10-100 microns, isotopes with the same Z are well separated.

Thanks!

JiaJun will give details on the simulations!