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The low Q2 chicane and Compton polarimeter at the JLab mEIC

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The mEIC features a low Q2 chicane in order to be able to study reaction involving quasi-real photon. A dipole is placed on the beam in order to provide momentum analysis of the electrons associated with those photons. A chicane geometry is thus created by adding 3 additional dipoles in order to bring the beam back in the ring. This chicane configuration is also ideal for Compton polarimetry since the spin precession is cancelled in the middle of the chicane where a photon source will be added to measure the Compton process.

I will present the layout of the low Q2 chicane and some parameters relevant to the low Q2 tagger and the Compton detectors designs.

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