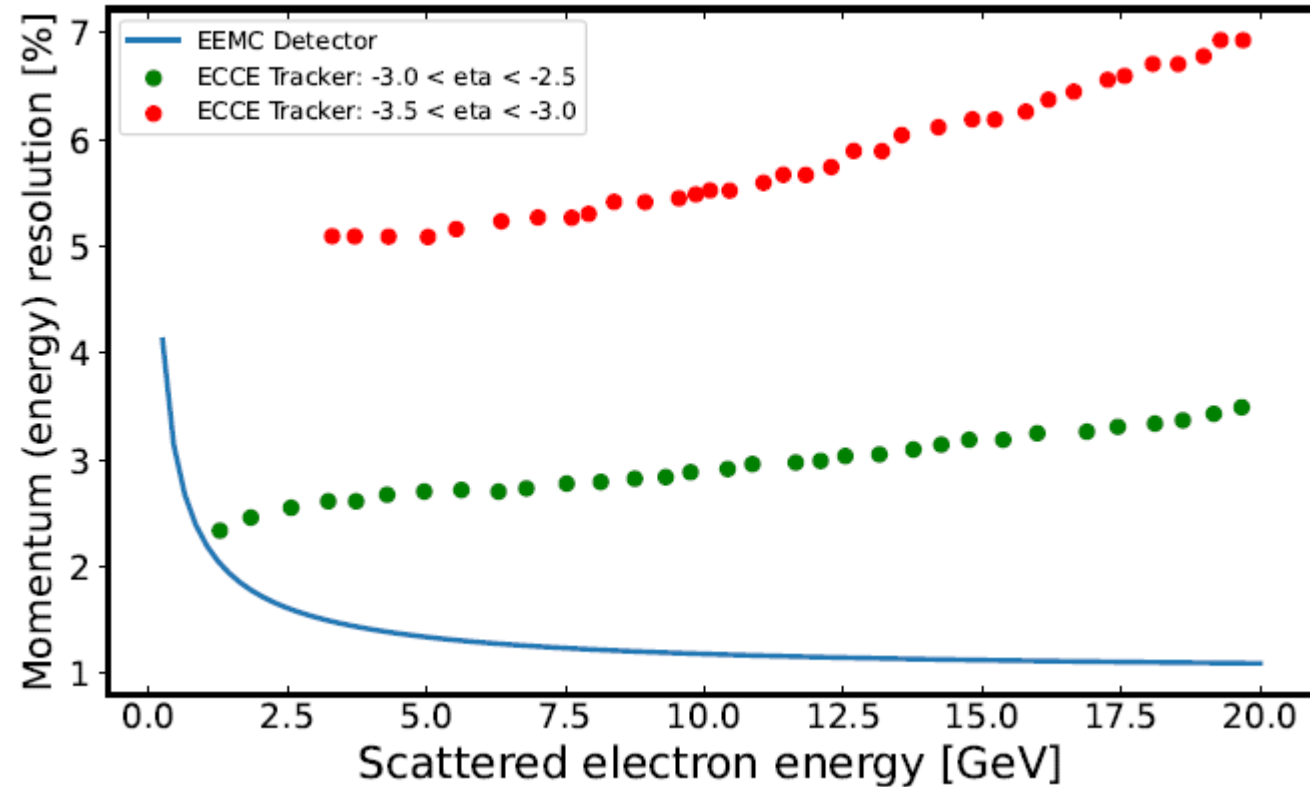


Momentum (energy) resolution

- The momentum (energy) resolution requirements for the scattered electron given in the yellow report are sufficient for all inclusive measurements.
- One important consideration is how best to perform the momentum (energy) reconstruction for the scattered electron in the electron endcap.
- If we consider again the case where we are interested in physics processes with $Q^2 > 1 \text{ GeV}^2$, we see from the plot above that we only need to measure scattered electrons with energy greater than 5 GeV for $\eta < -3.0$.
- The higher Q^2 electron momentum reconstruction at these backwards angles will therefore rely on the EEMC detector, as can be seen in the right plot.



The tracking resolution curves shown above come from figure 2.7 in the ECCE proposal. The EEMC resolution is drawn assuming a 2% stochastic term and a 1% constant term.