

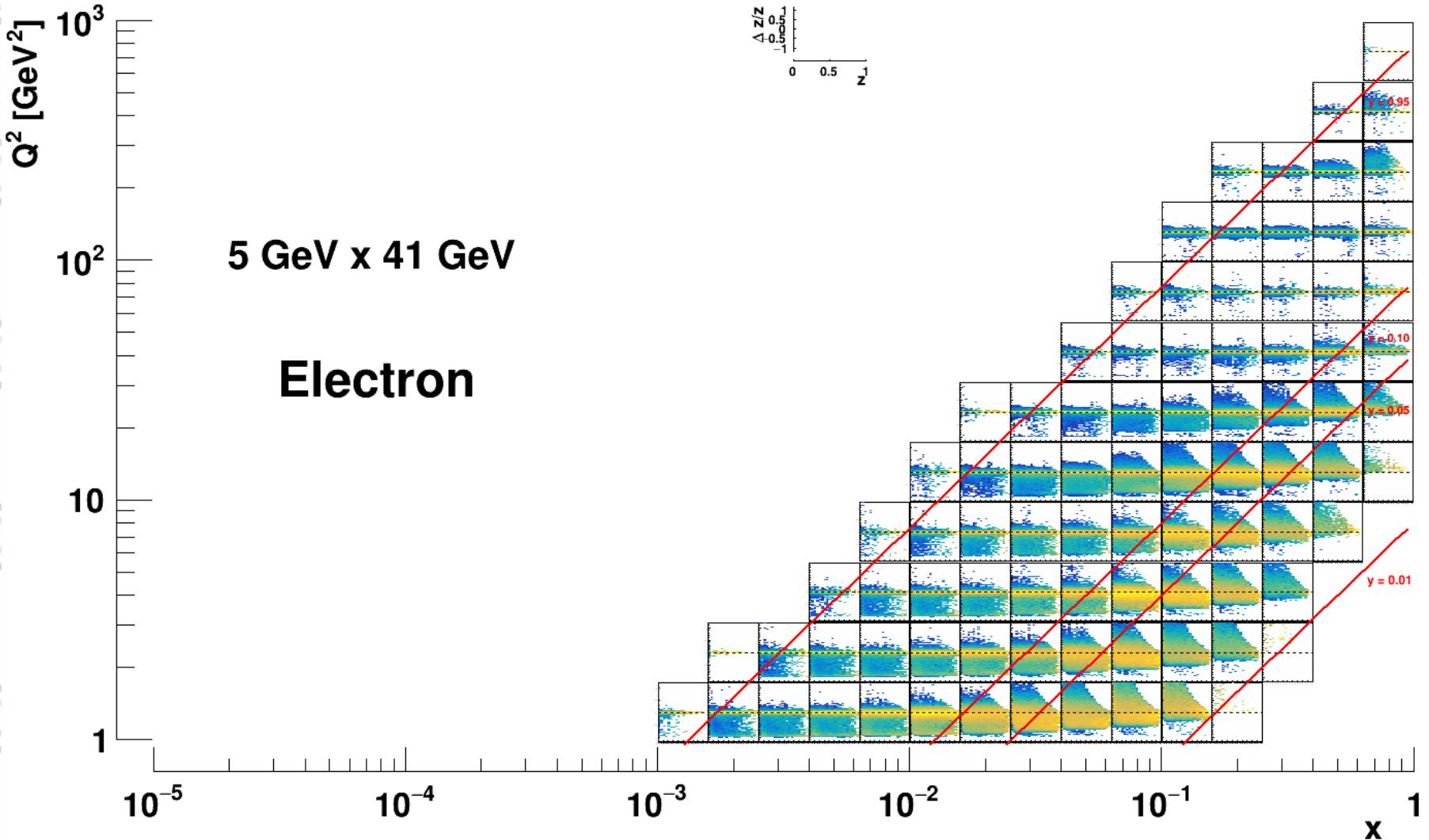
SIDIS variable resolutions

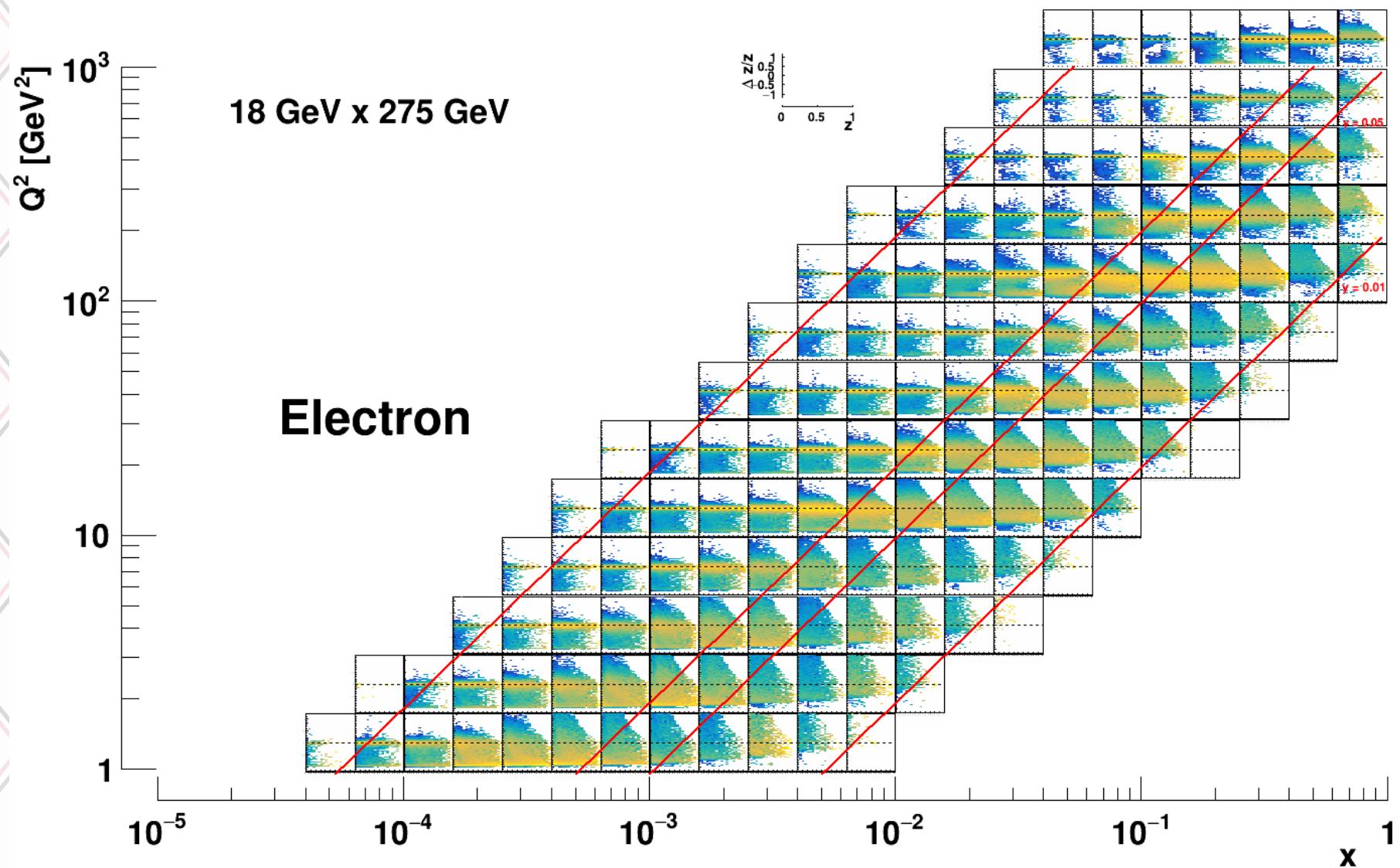
Ralf Seidl (RIKEN)

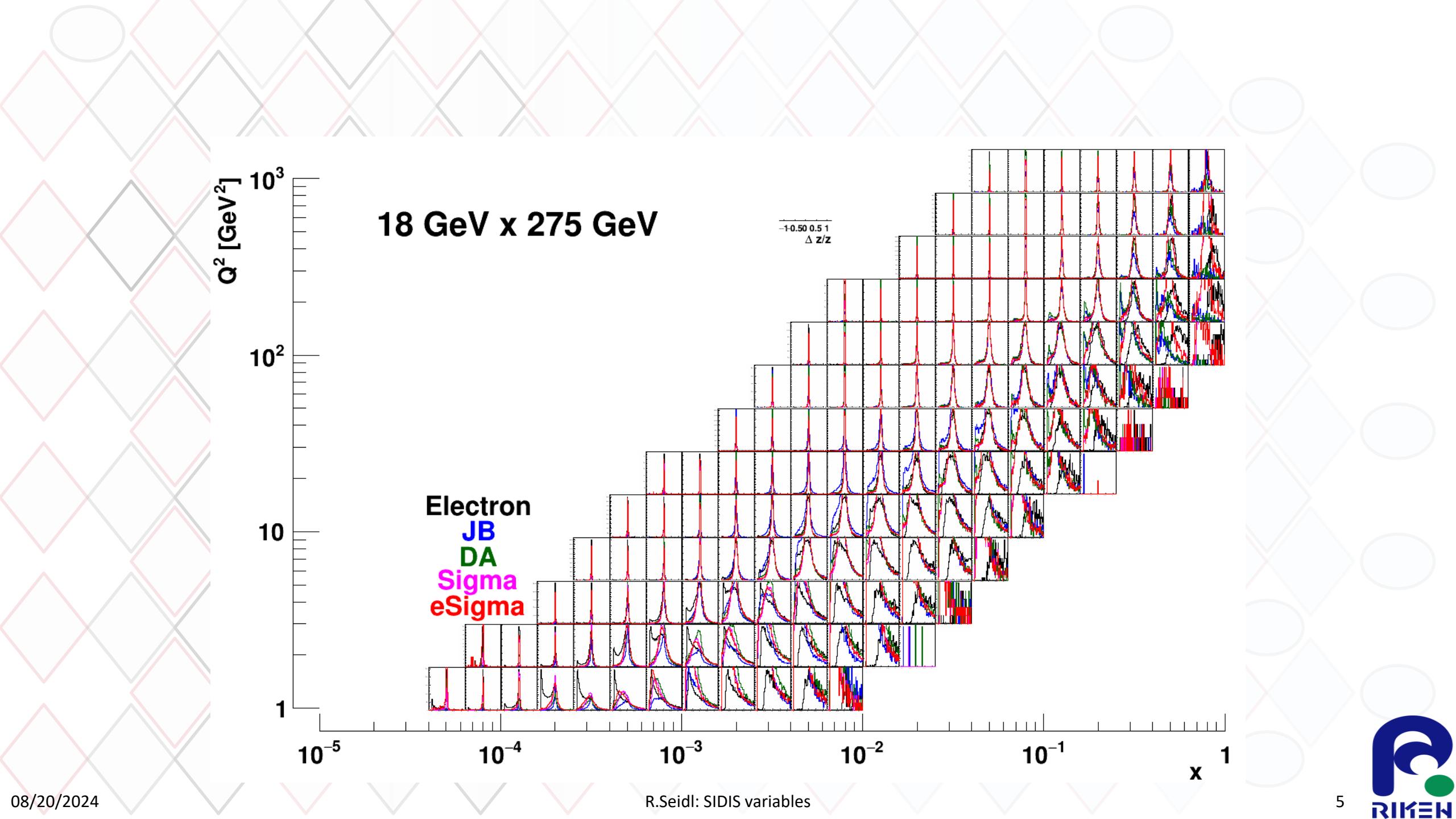
Status

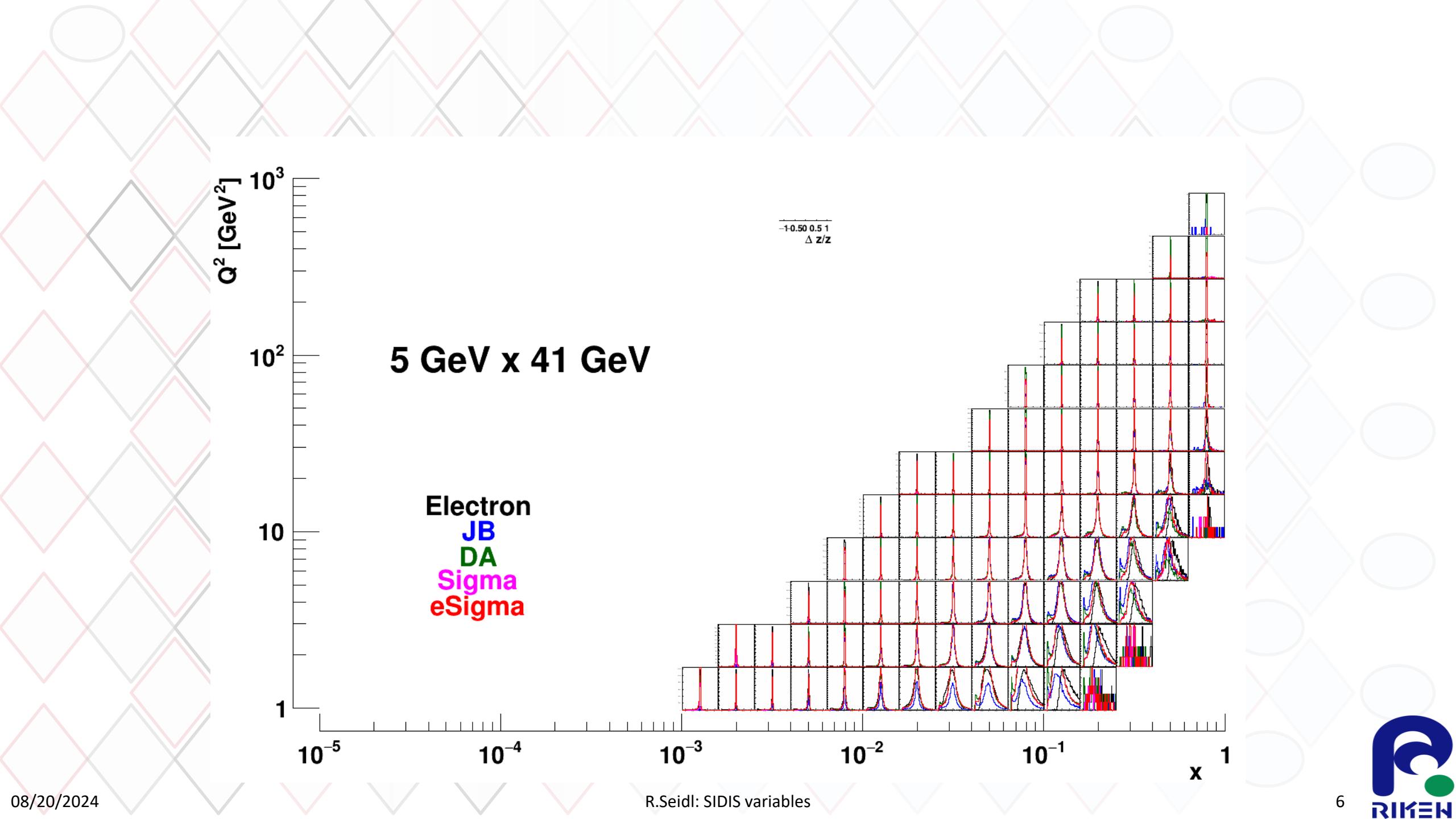
- Using 24.07 production on S3
- DIS/NC/.../pythia8NCDIS in 4 Q2 bins
- DIS kinematics from production
“InclusiveKinematics[Electron,JB,DA,Sigma,eSigma] (based on tracking only for electron)
- q vector still used from reconstructed electron “ScatteredElectron” as q vector not available in current simulations → need to calculate kinematics myself or to be added to reconstruction

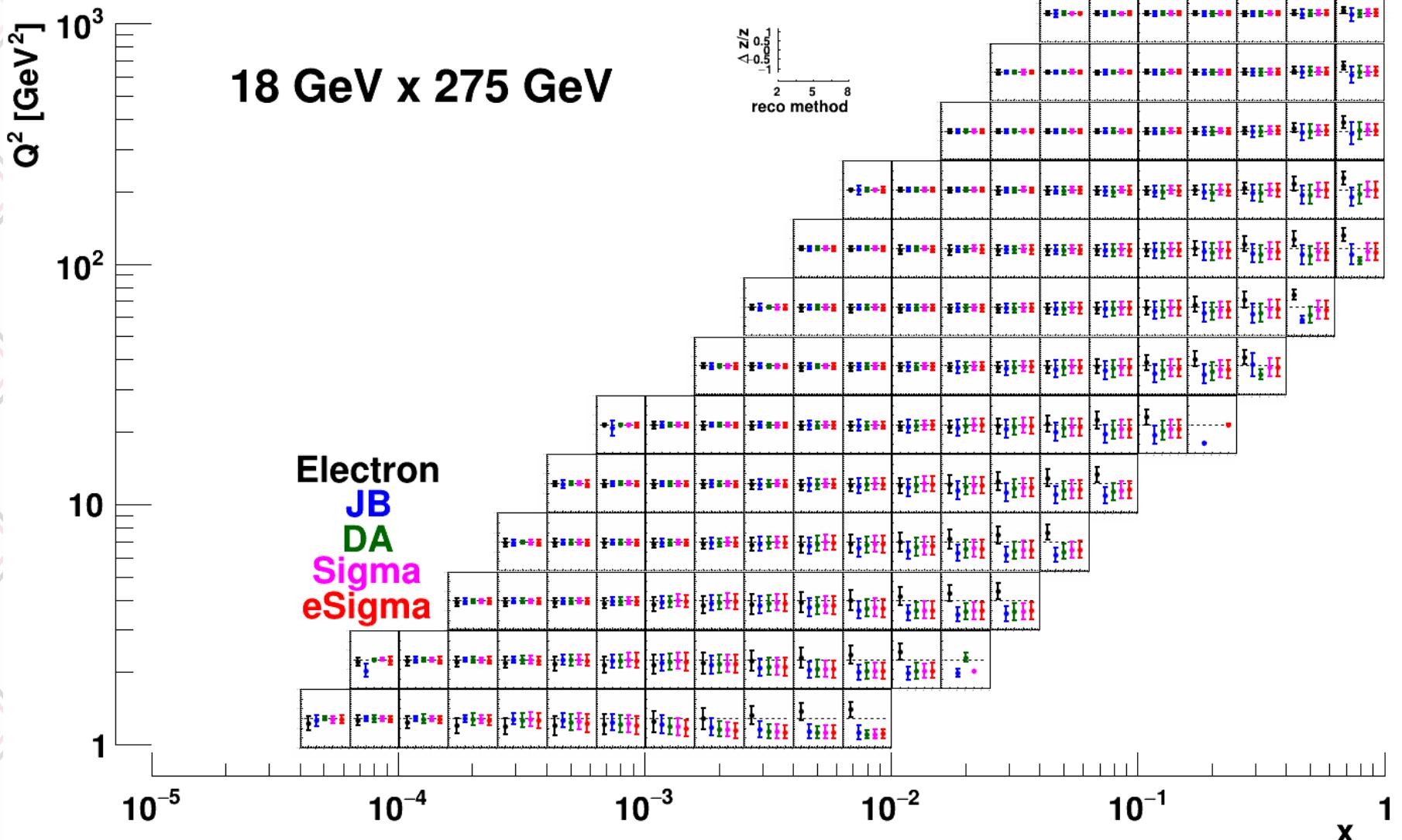
Z smearing

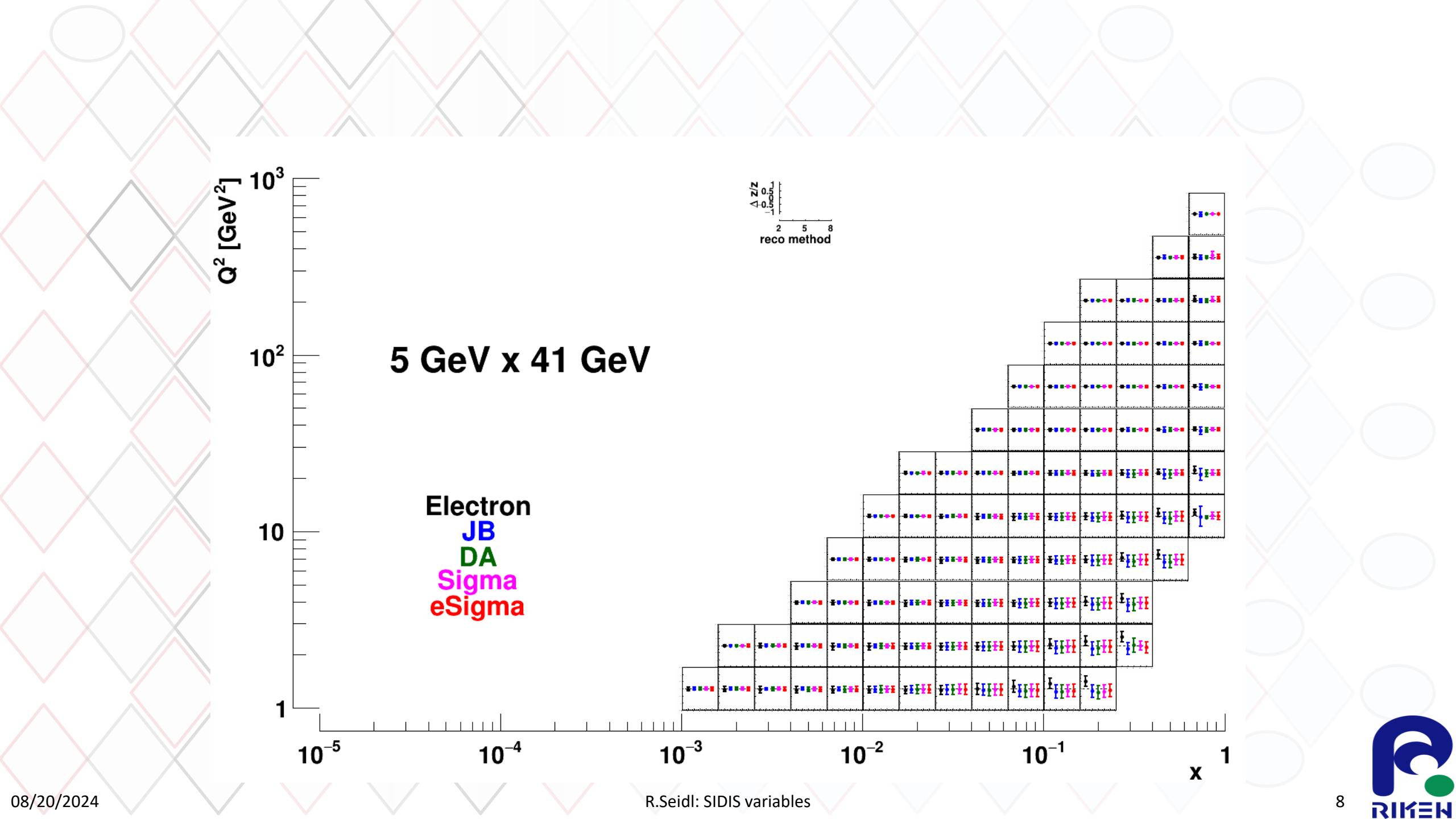




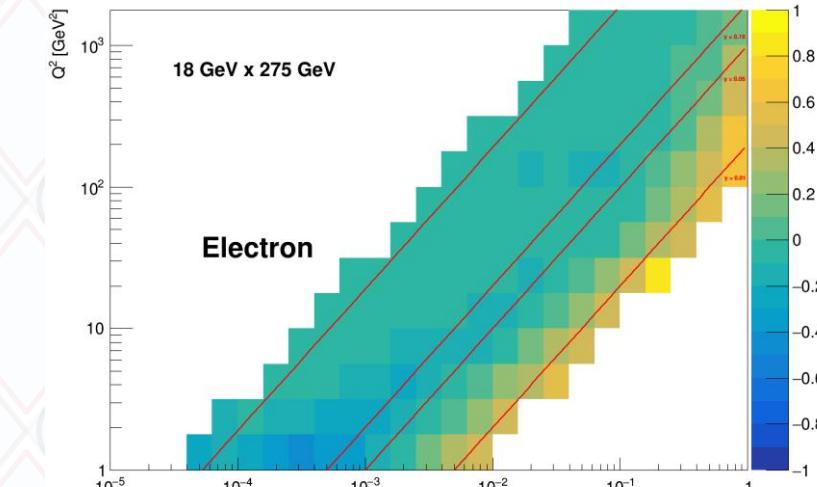
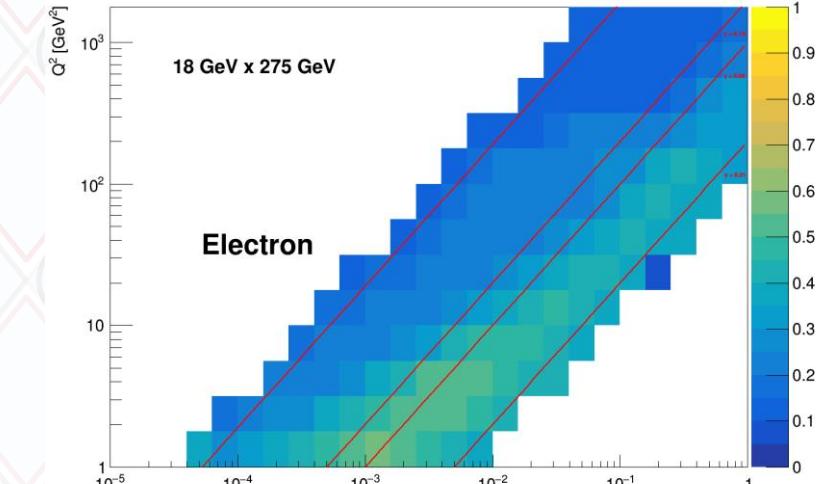
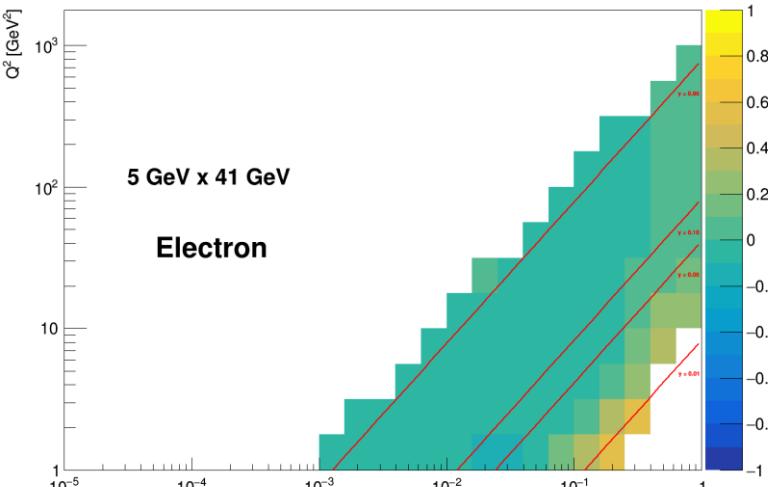
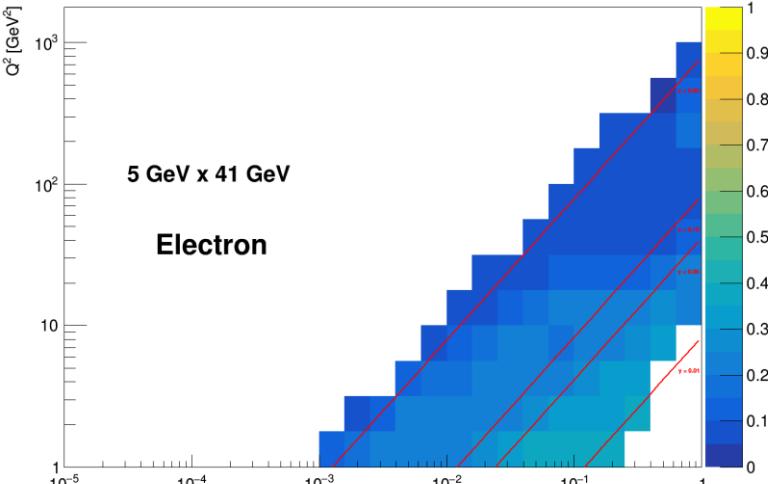




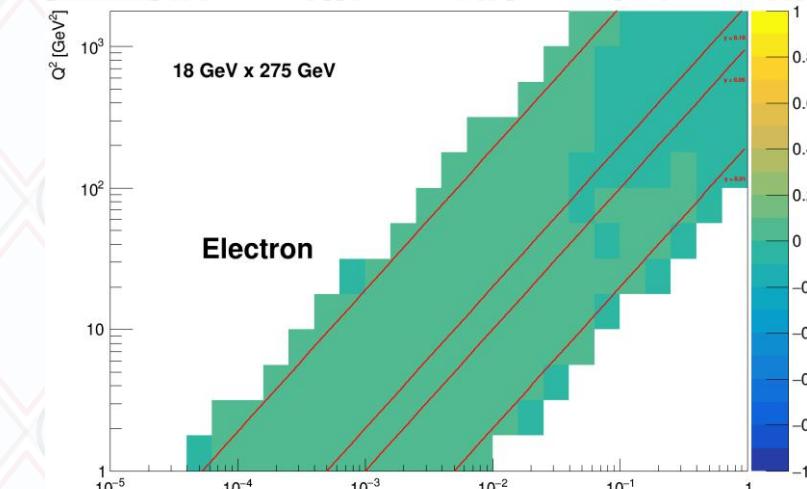
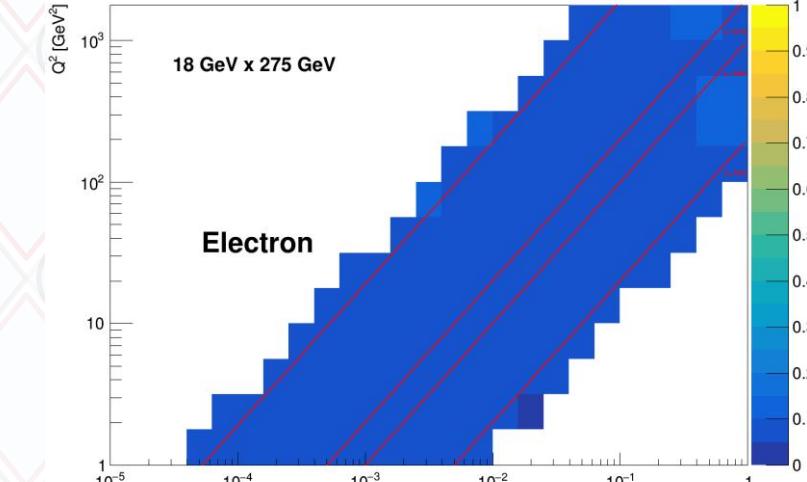
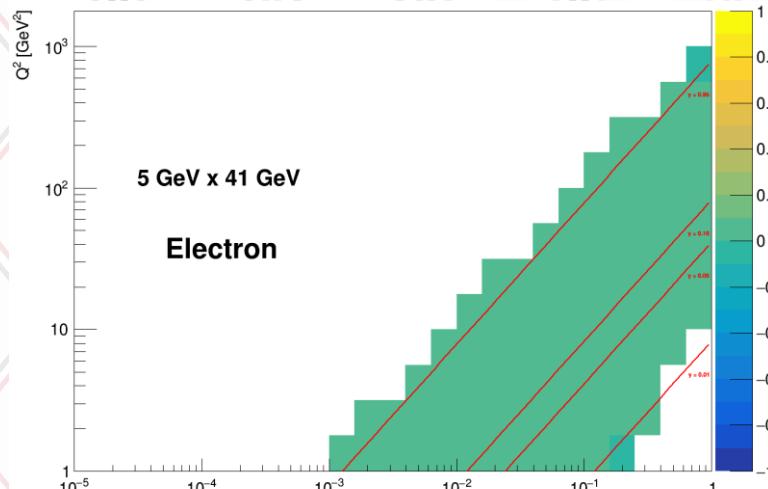
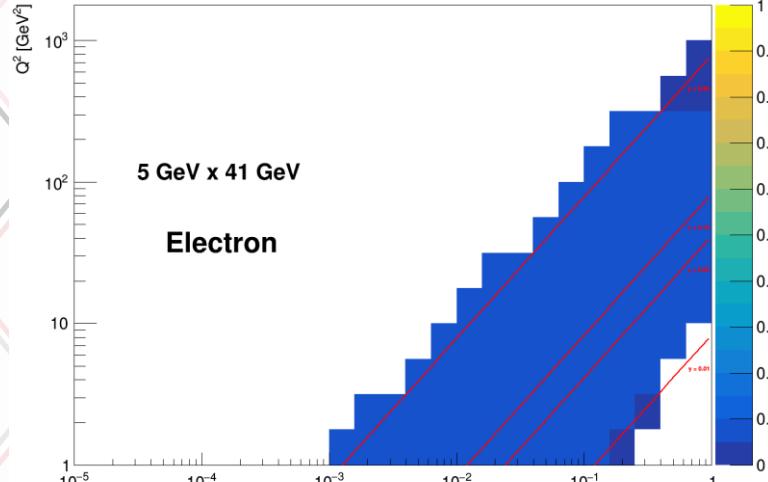


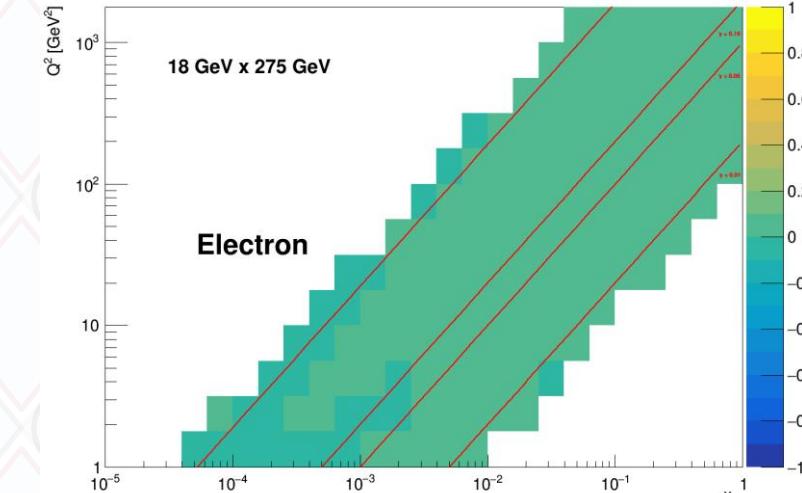
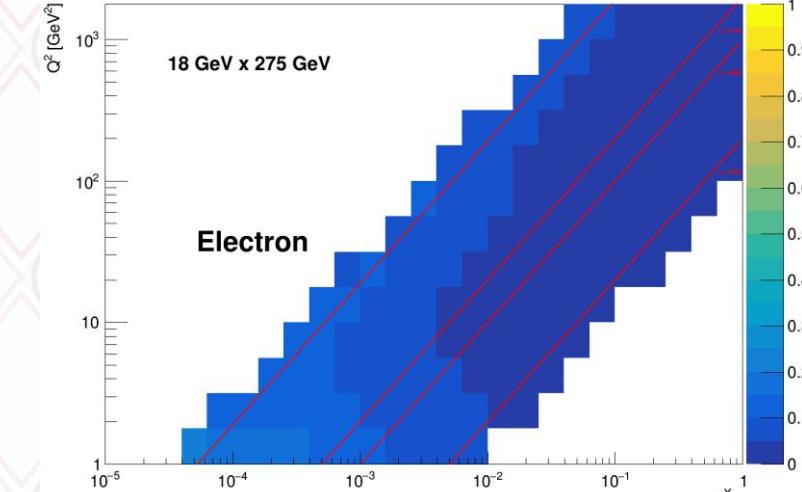
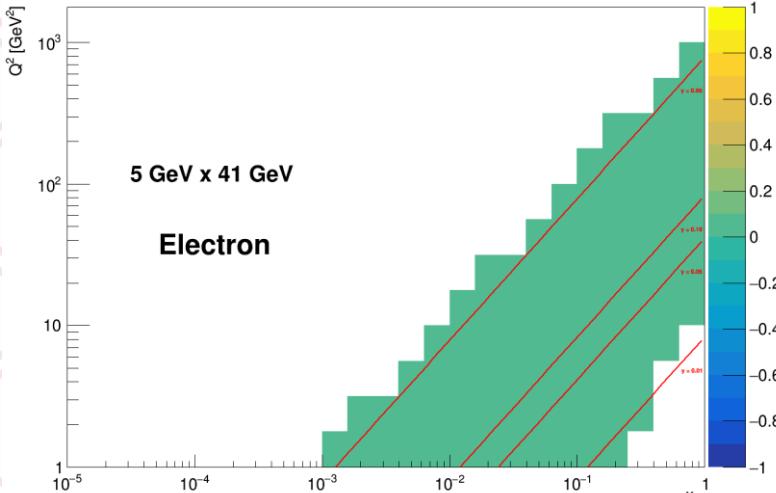
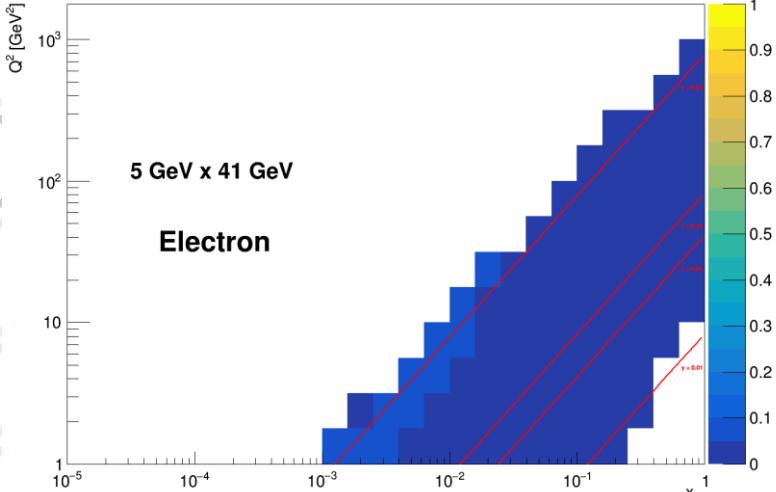


Mean Resolutions and RMS for z in



Pt resolutions





Next steps

- Revisit the q vector calculation for the other DIS reconstruction methods
- Revisit the previous TMD work (unpol, Sivers, Collins) and make example figures for TDR (AUTs for example bins, and HERA-style AUT plot?)