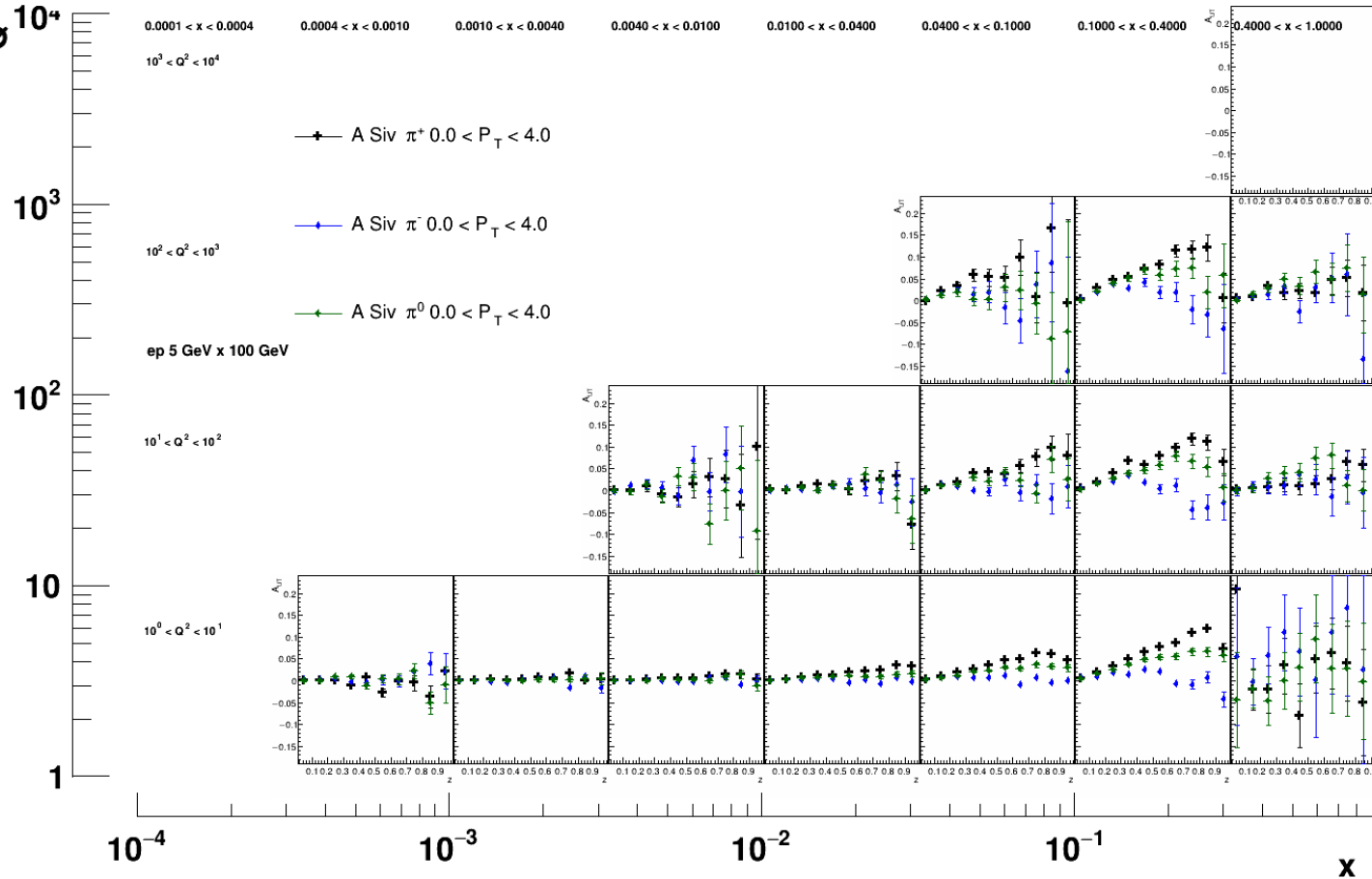


Torino parameterization Sivers/Collins asymmetries

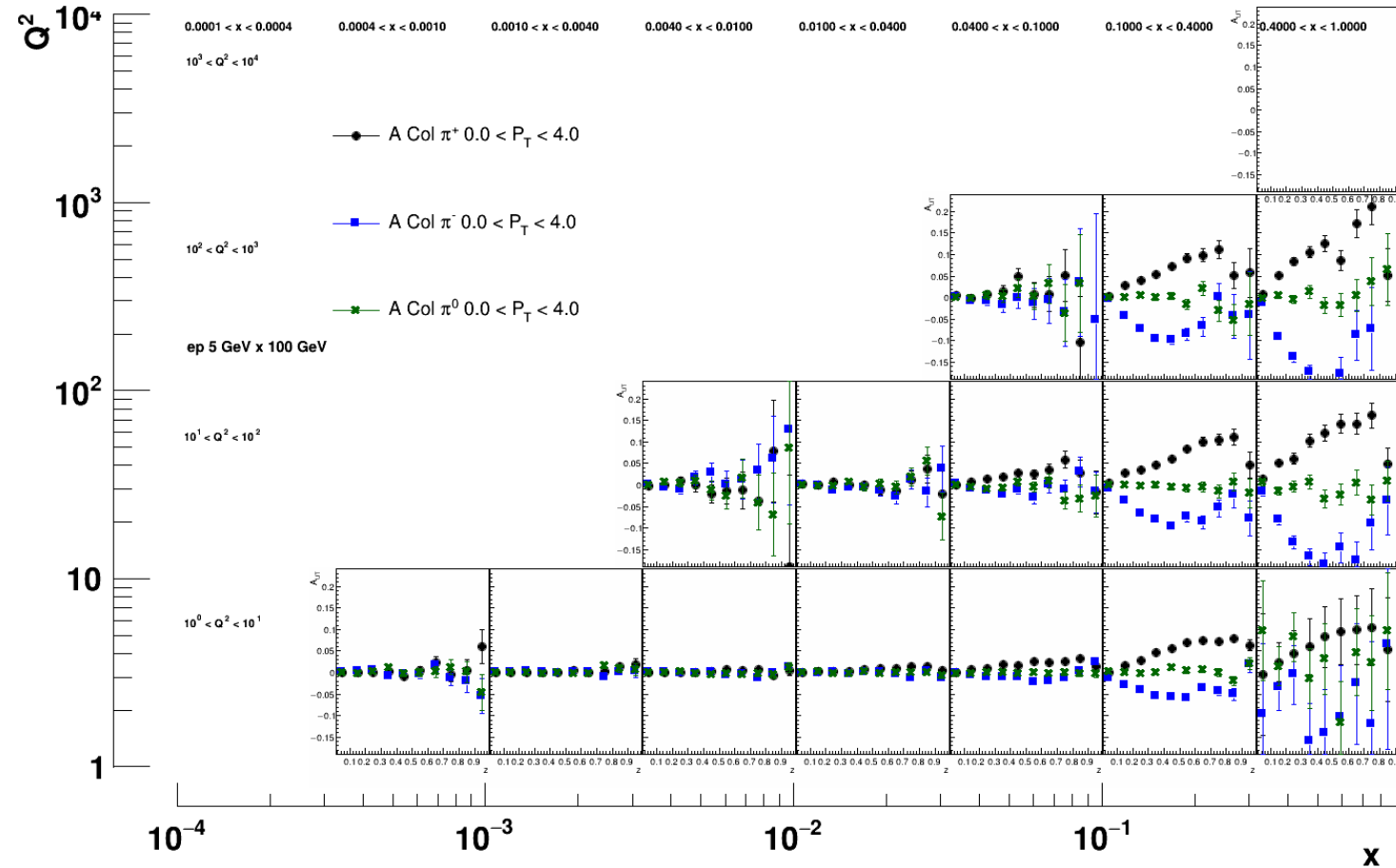
Ralf Seidl (RIKEN)

Torino08 weighted asymmetries, z dep, Sivers

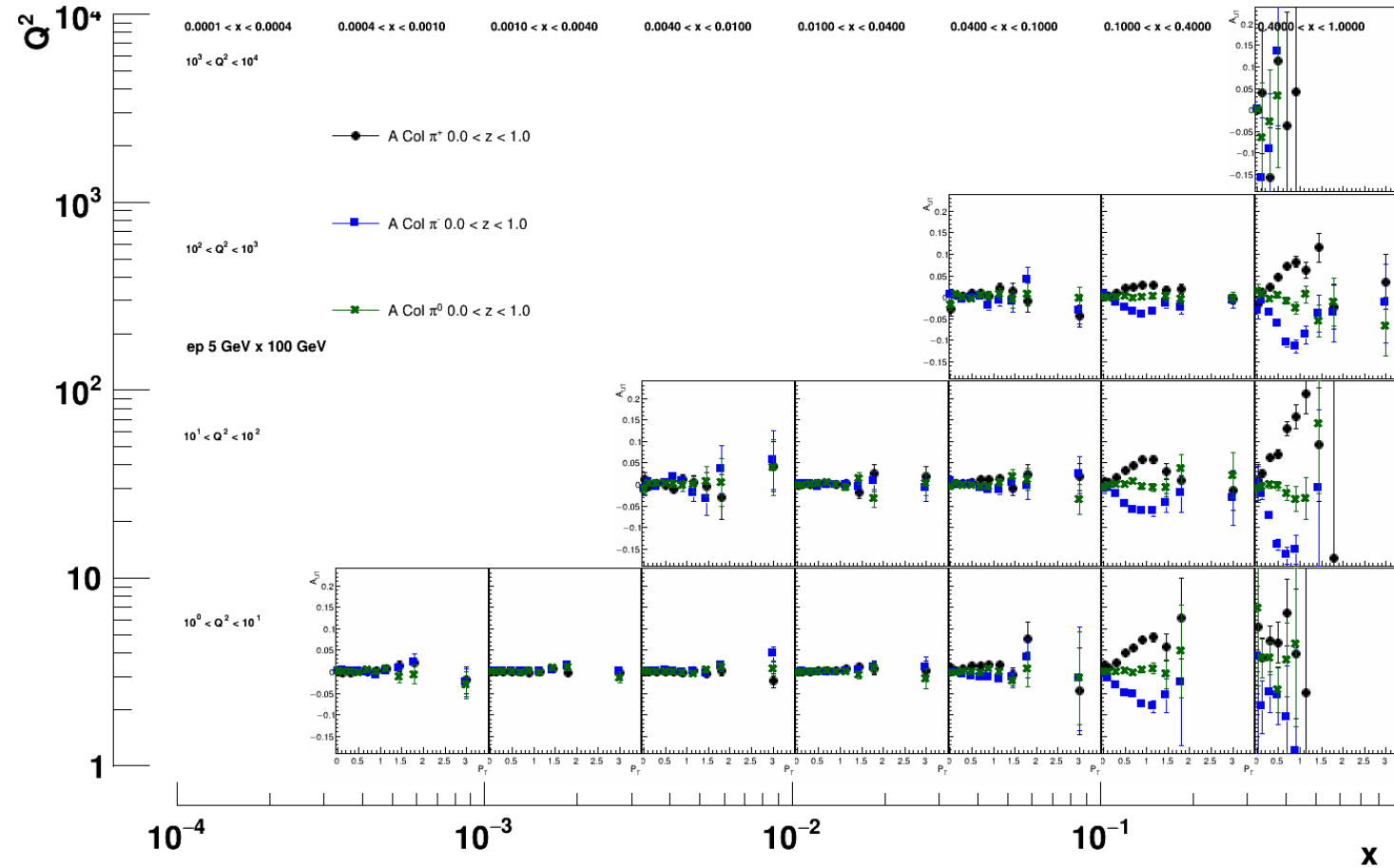
- Torino 08 parameterization from Alexei's wrapper of Sivers, Collins and unpol TMD structure functions, separated by flavor and hadron type
- Reweighting of spin dependent using these structure functions on generated azimuthal angles
- Simultaneous 2D fit of Sivers and Collins asymmetries



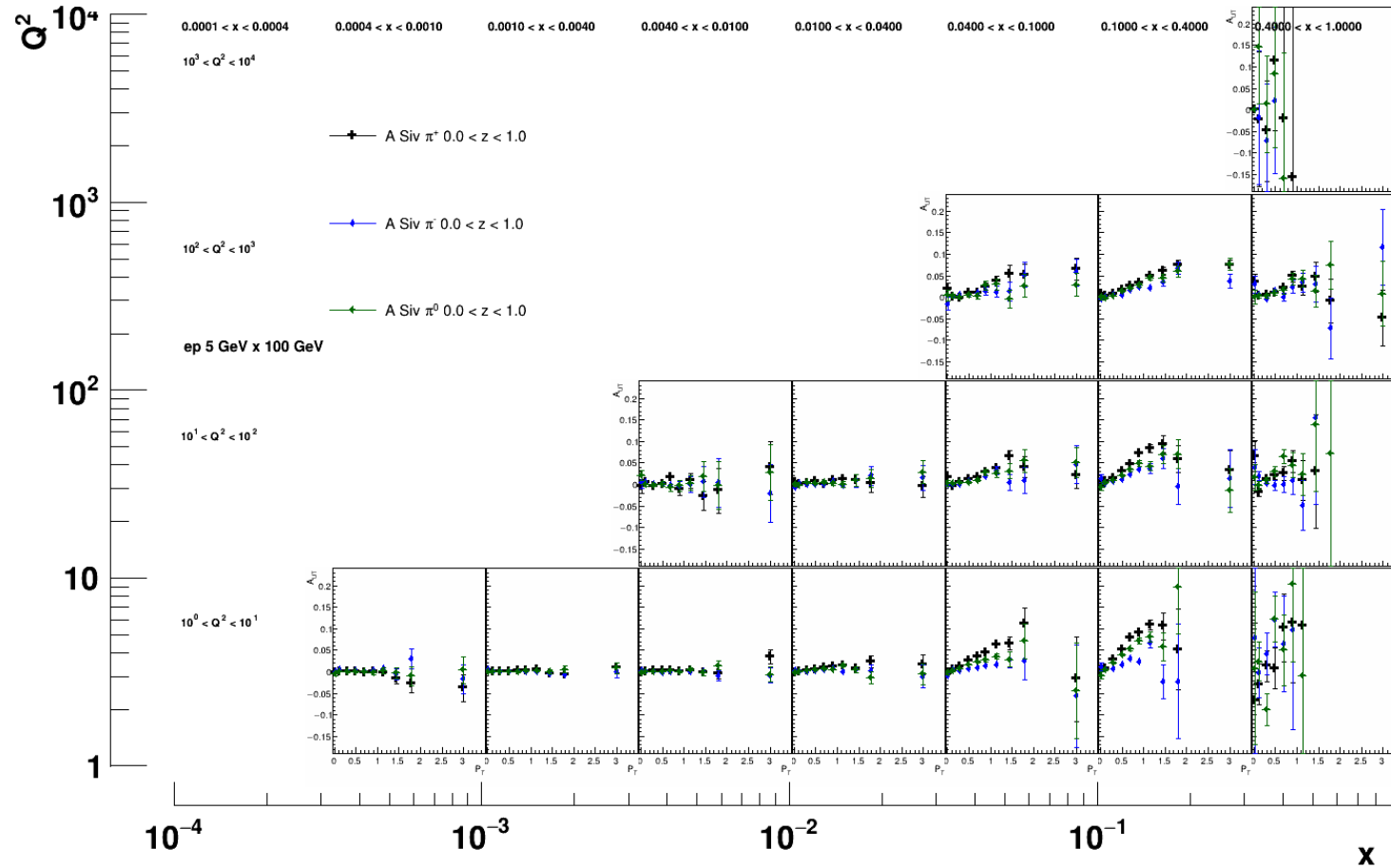
z dependence of weighted asymmetries, Collins



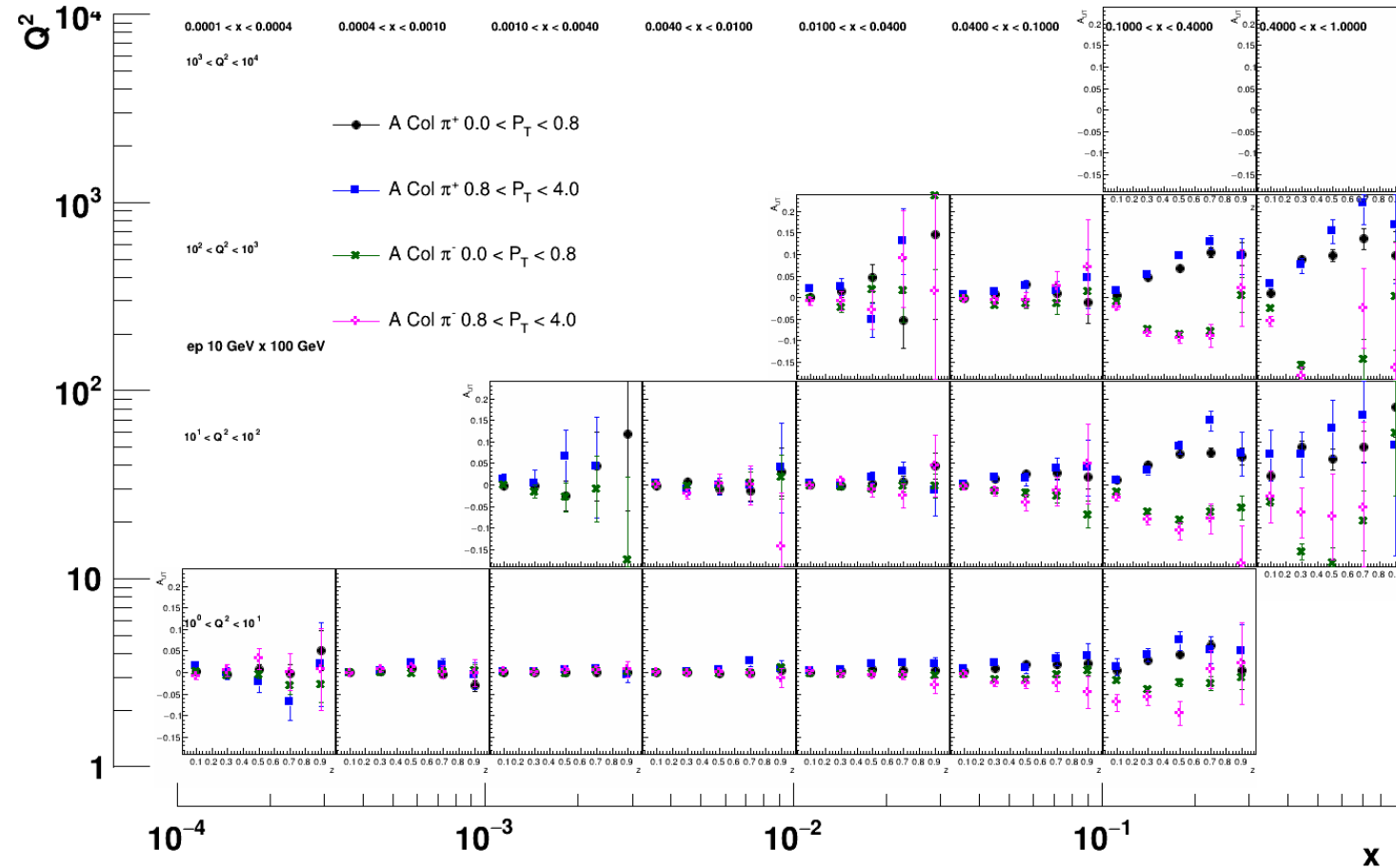
Collins asymmetries vs Pt



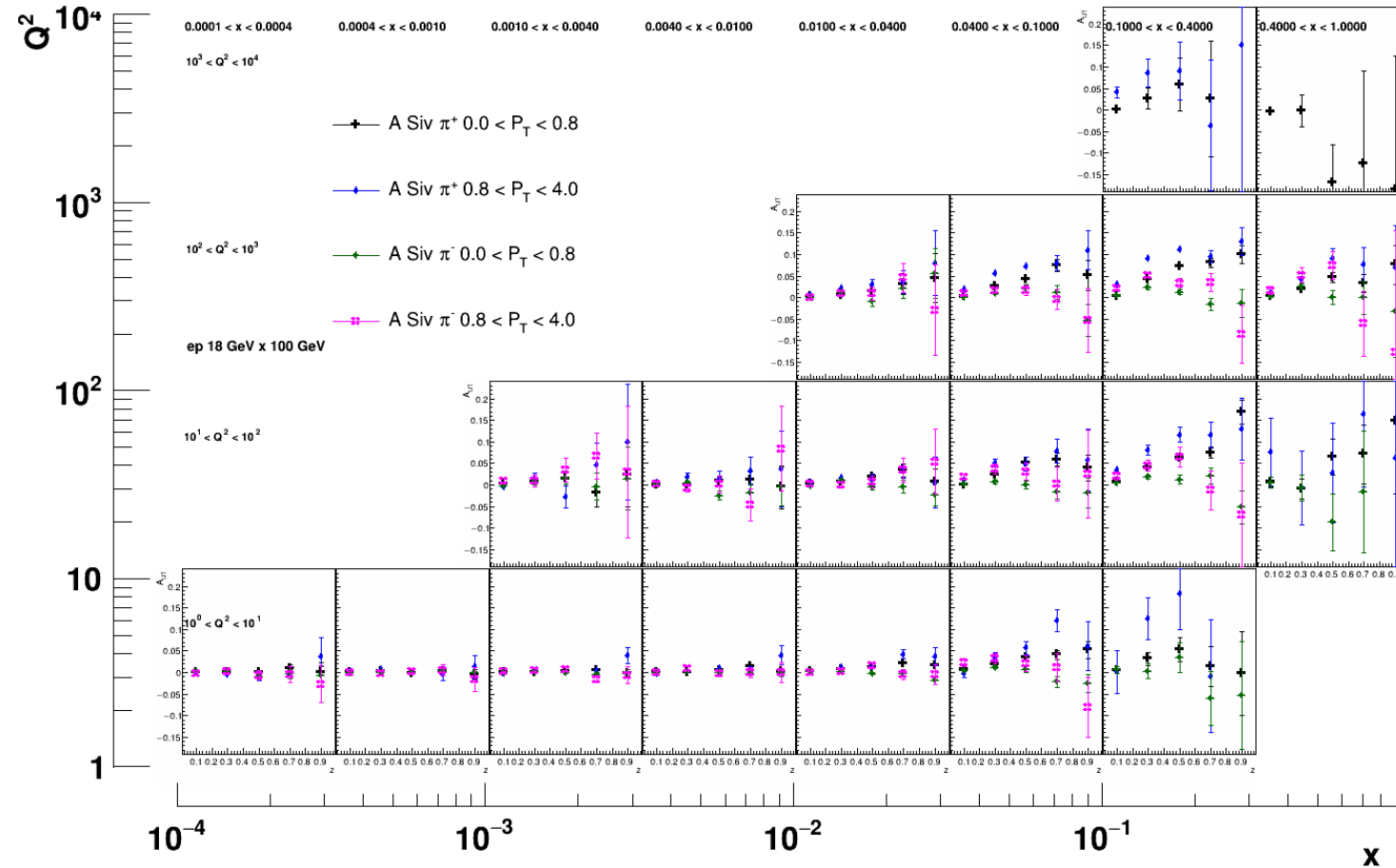
Sivers asymmetries vs Pt



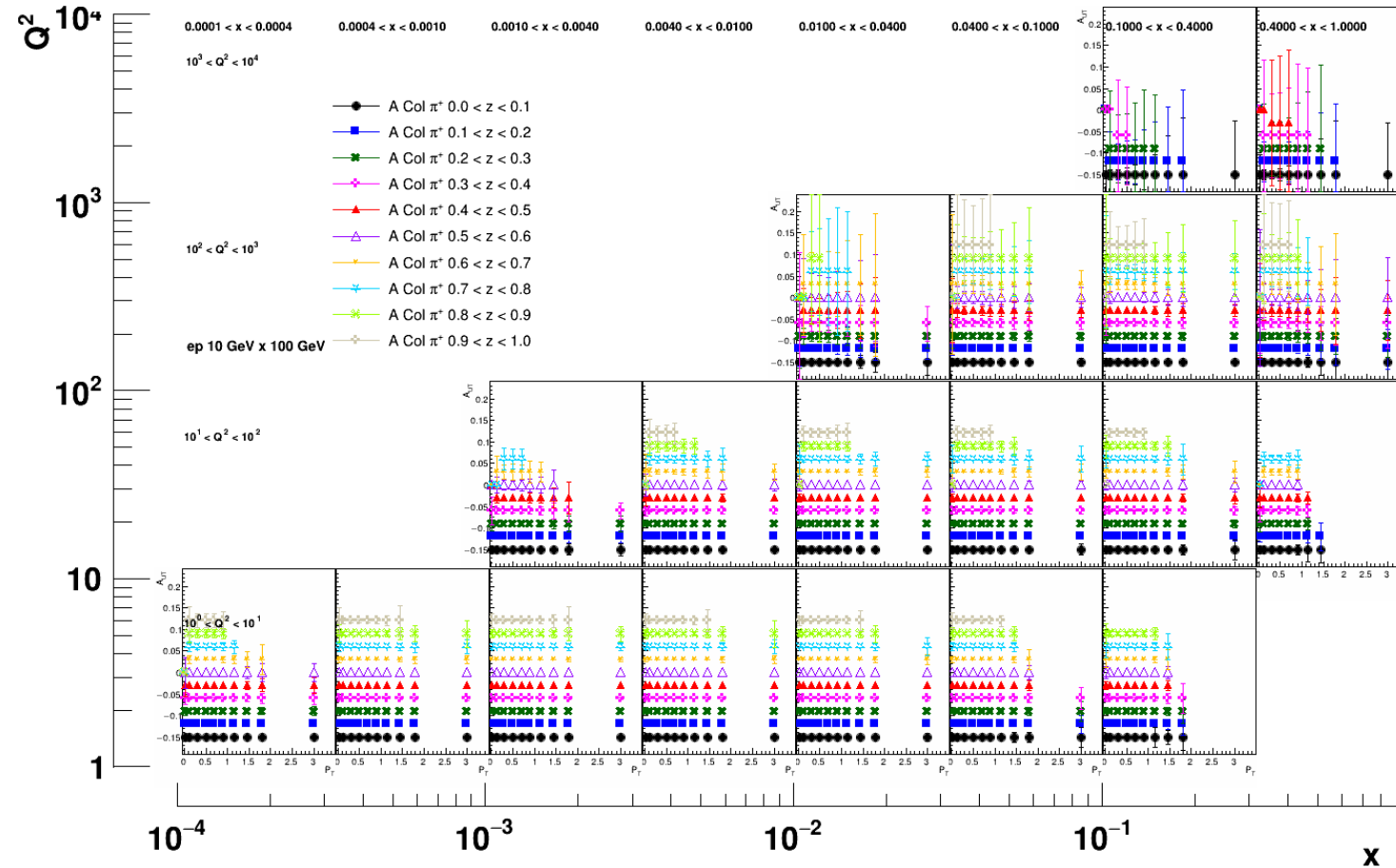
Combined binning, vs z, Collins



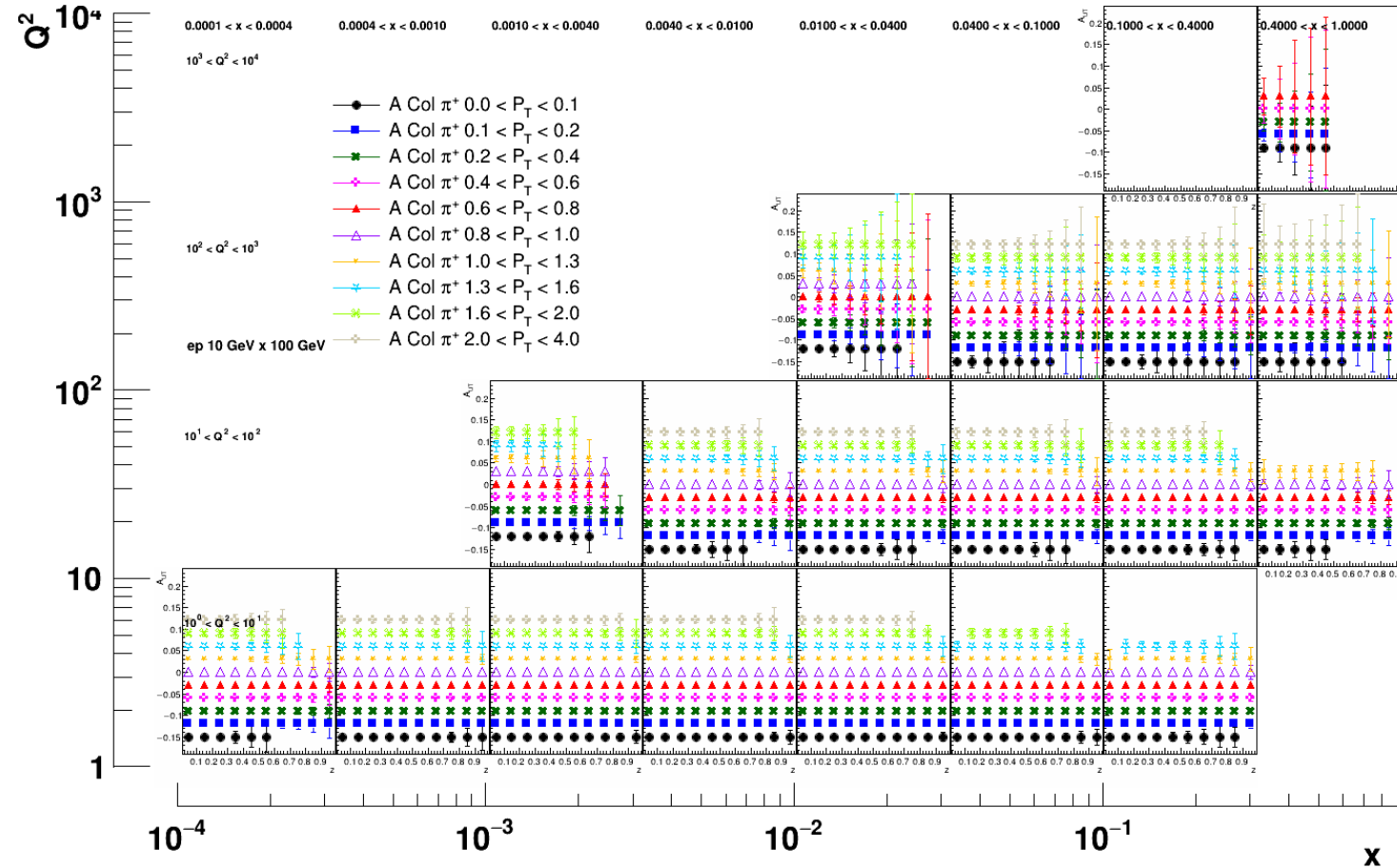
Combined binning, vs z, Sivers



Projection plots for 10x100 vs Pt (others similar)



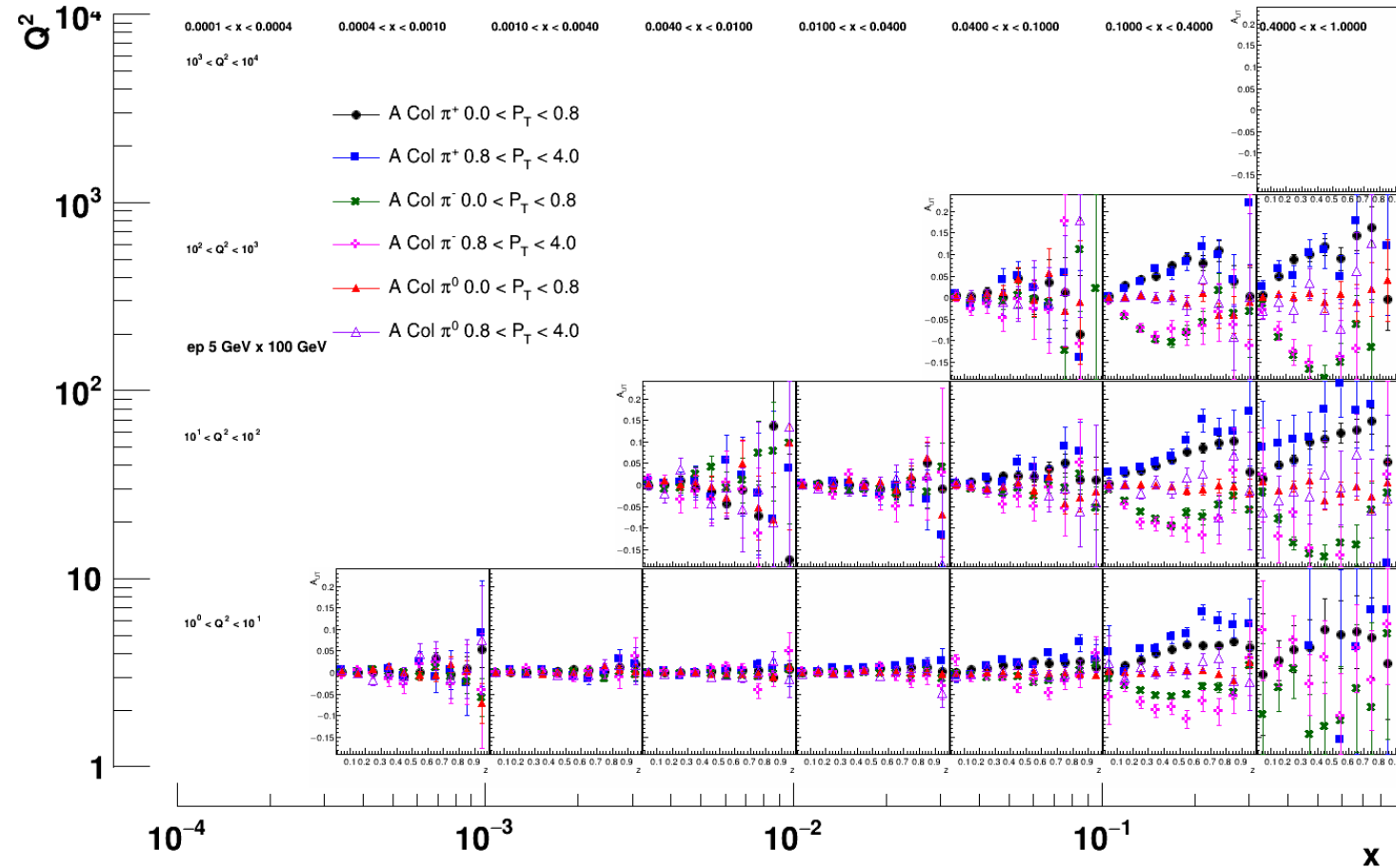
Projection plots for 10x100 vs z



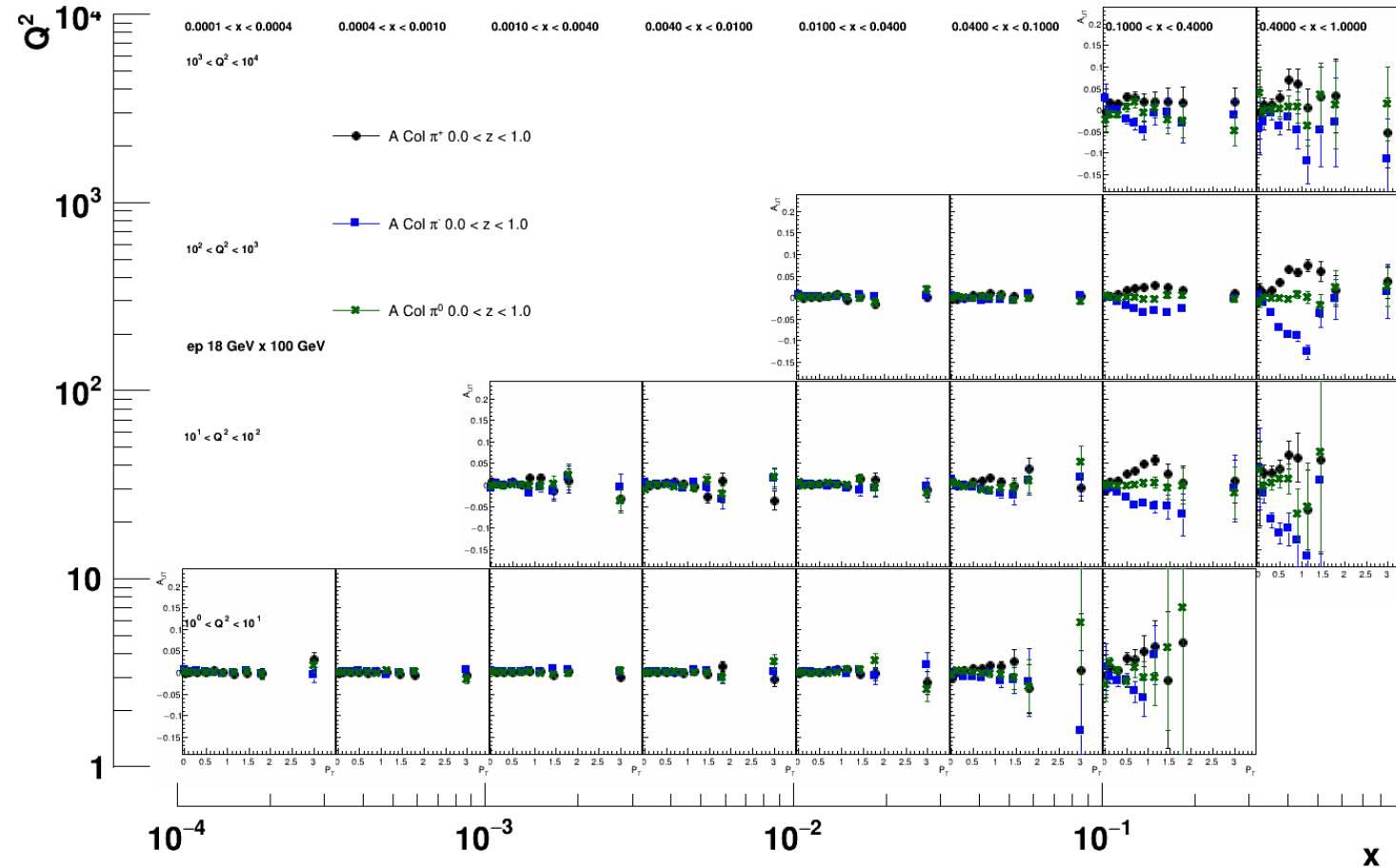
Summary

- Expected Sivers and Collins asymmetries studied using Torino08-weighted PythiaRHIC
- Very high precision for large range in x , Q^2 , z and P_t
- Detailed expected uncertainties, including smearing/acceptance will be made available for impact studies.

z dependence of weighted asymmetries



Collins asymmetries vs Pt



Sivers asymmetries vs Pt

