

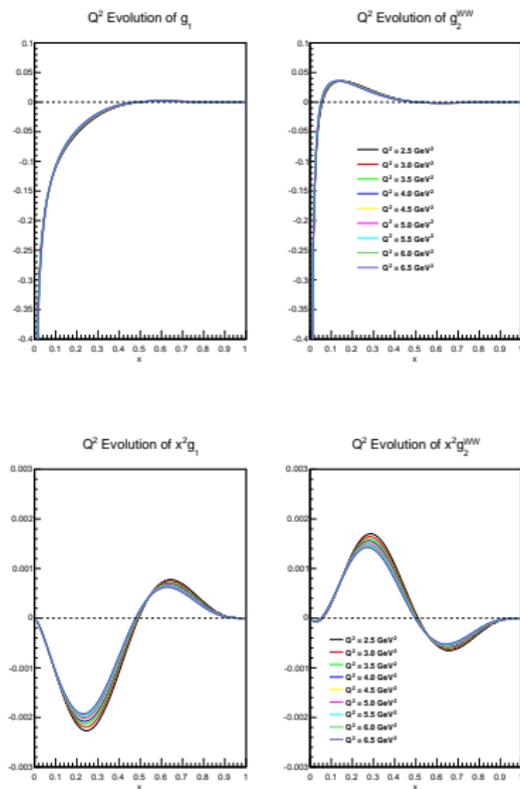
Q^2 Dependence of Structure Functions

Matthew Posik

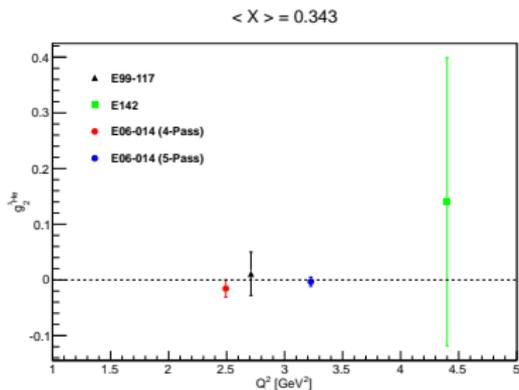
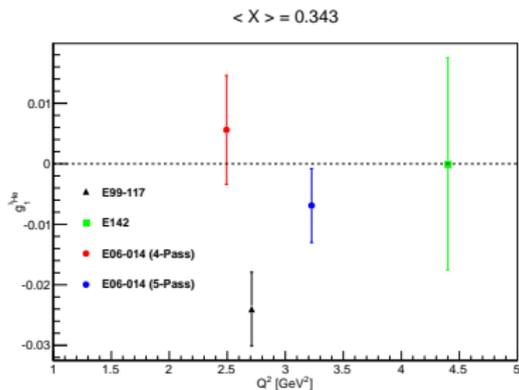
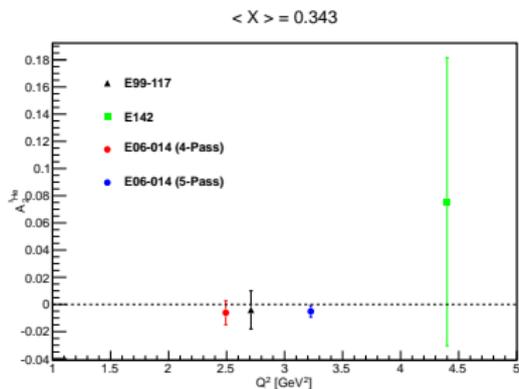
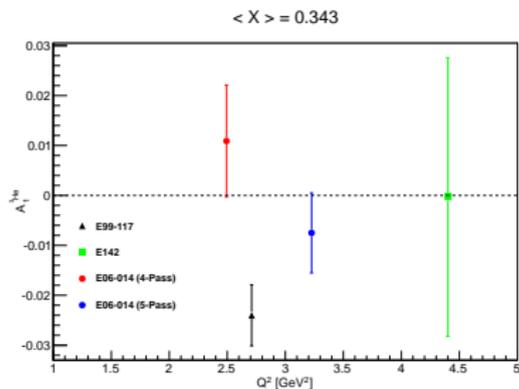
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11/08/2012

Q^2 Dependence from DSSV Fits



Q^2 Dependence from Data



Summary

- DSSV fits show little Q^2 dependence on g_1 and g_2 ^3He structure functions
- E142, E99-117 and our 4 and 5 pass data are consistent with small Q^2 dependence for $\langle x \rangle = 0.34$

What's Next

- Evolve data to **constant Q^2** using 4 and 5 pass data
- Re-focus on **GEANT4 BigBite** simulation
- Help Dave with **radiative corrections**