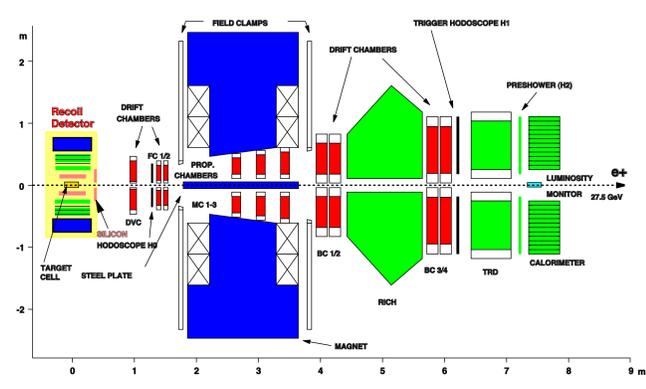


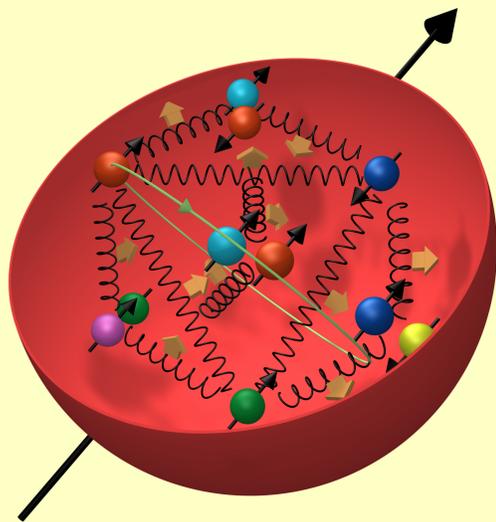


HERMES Highlights



HERA I 1995 - 2000

longitudinal target polarization
Goal: Nucleon Spin Structure



$$\frac{1}{2} = \frac{1}{2} \Delta\Sigma$$

quark spin

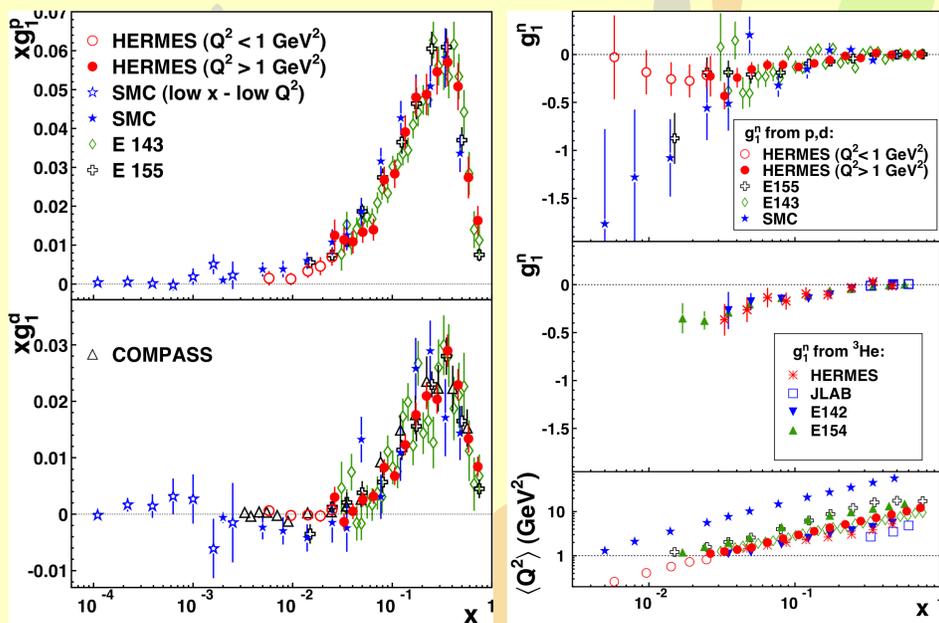
$$+ \Delta G$$

gluon spin

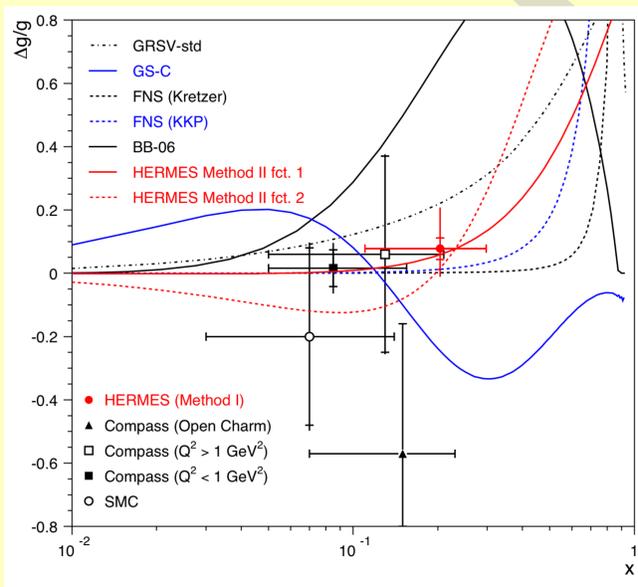
$$+ L_q + L_q$$

orbital angular momentum

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$$\Delta\Sigma = 0.330 \pm 0.025 \pm 0.011 \pm 0.028$$



$$\Delta G/G = 0.071 \pm 0.034 \pm 0.010 \begin{matrix} +0.127 \\ -0.105 \end{matrix}$$

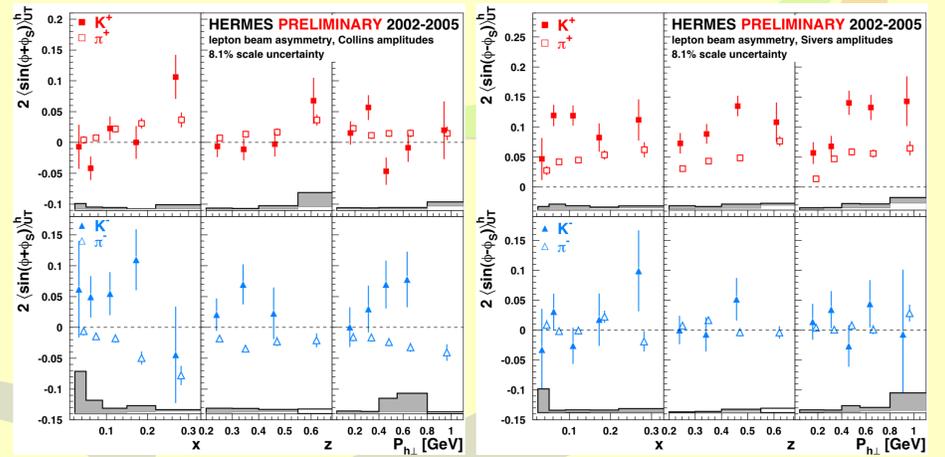
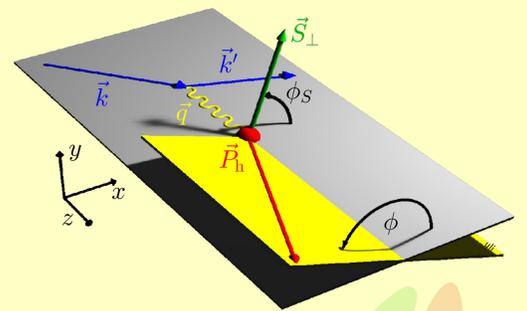
HERA II 2002 - 2005

transverse target polarization
Goal: Transverse Spin & Momentum Structure and Spin-Orbit Correlations

Transversity $\delta q(x)$

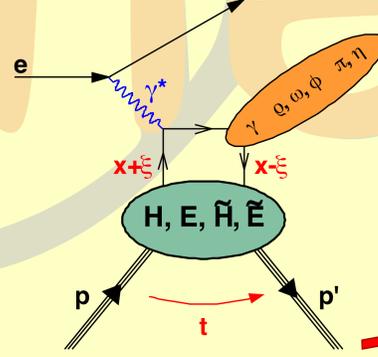
Collins FF $H_1^{\perp q}(z)$

Sivers DF $f_{1T}^{\perp q}(x)$



HERA II 2006 - 2007

exclusive processes
Goal: Generalized Parton Distributions and Quark Orbital Angular Momenta



Recoil Detector

