

Miyazaki, August 27, 2019

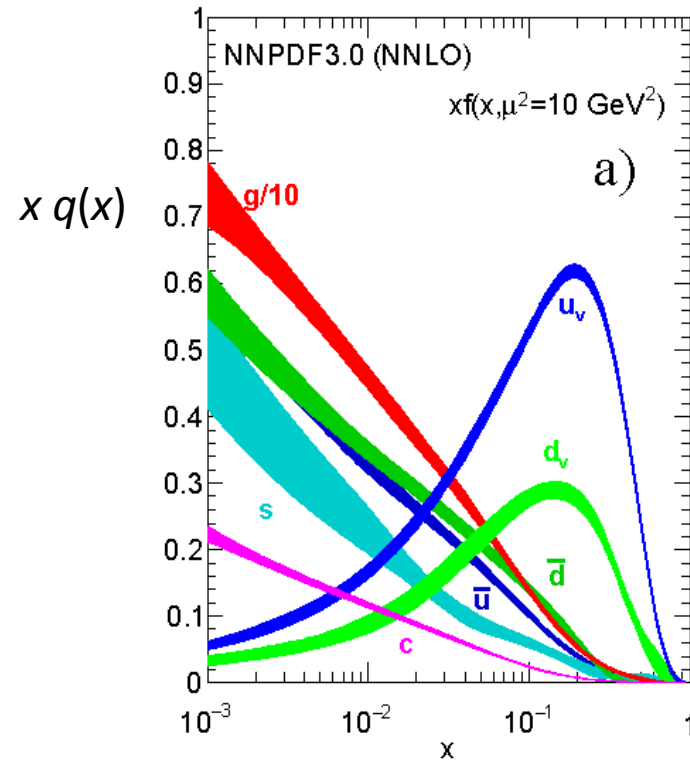
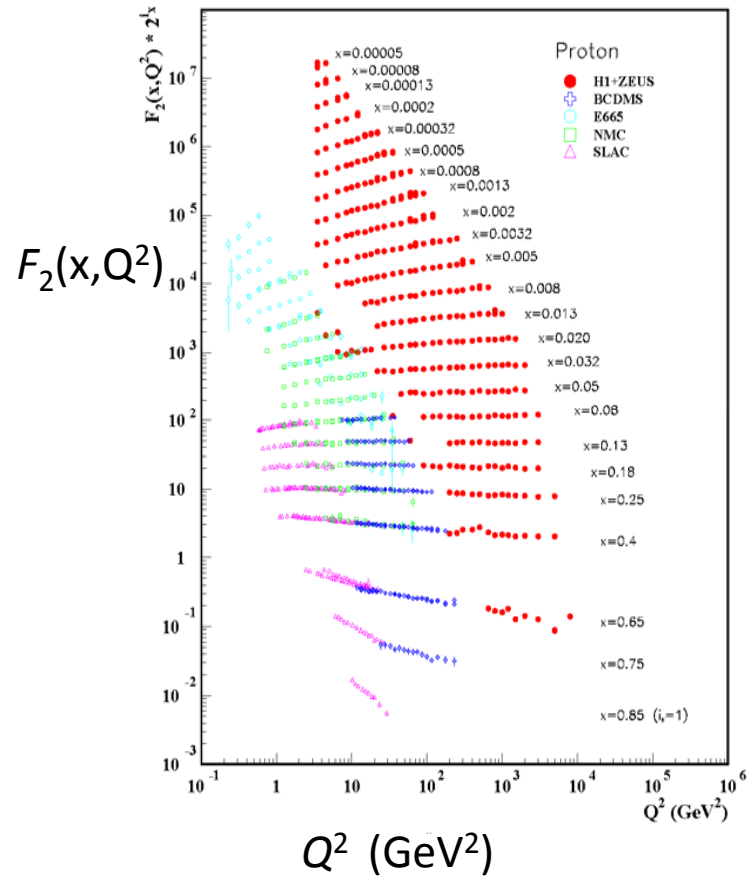
T.-A. Shibata

Discussion sessions (a rough schedule)

- | | |
|-----------|--|
| August 27 | Helicity distribution functions of partons,
Status of the proton spin problem |
| August 28 | Lattice QCD for proton structure |
| August 29 | Transverse spin physics |
| August 30 | Future directions of nucleon spin physics |

PDG

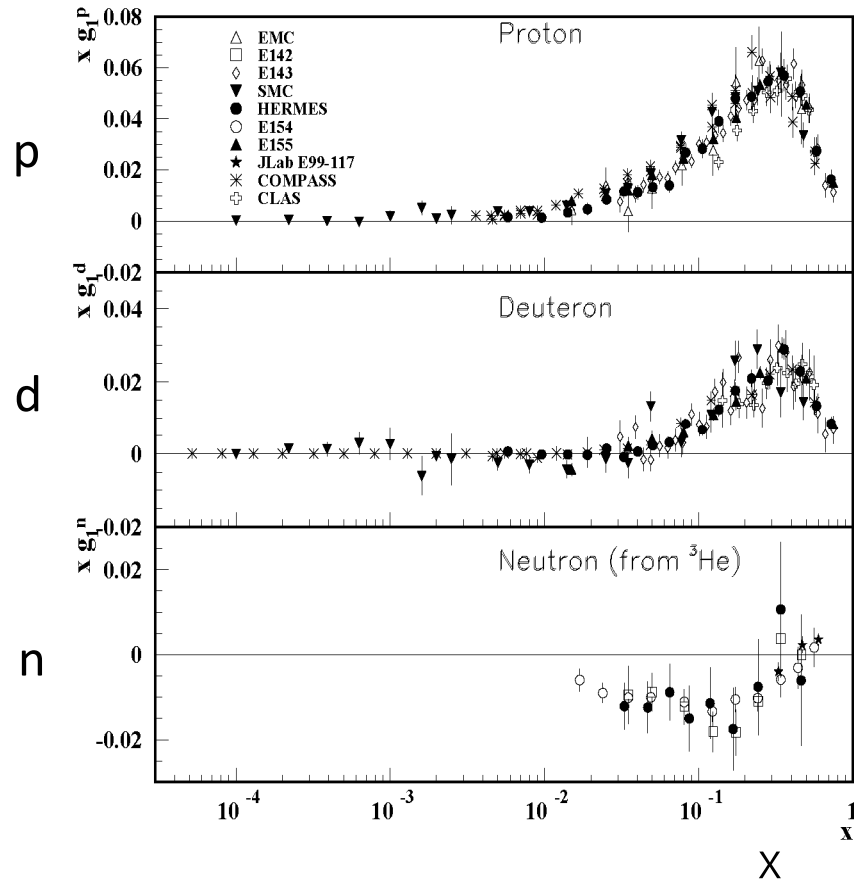
Review section, 'Structure functions'



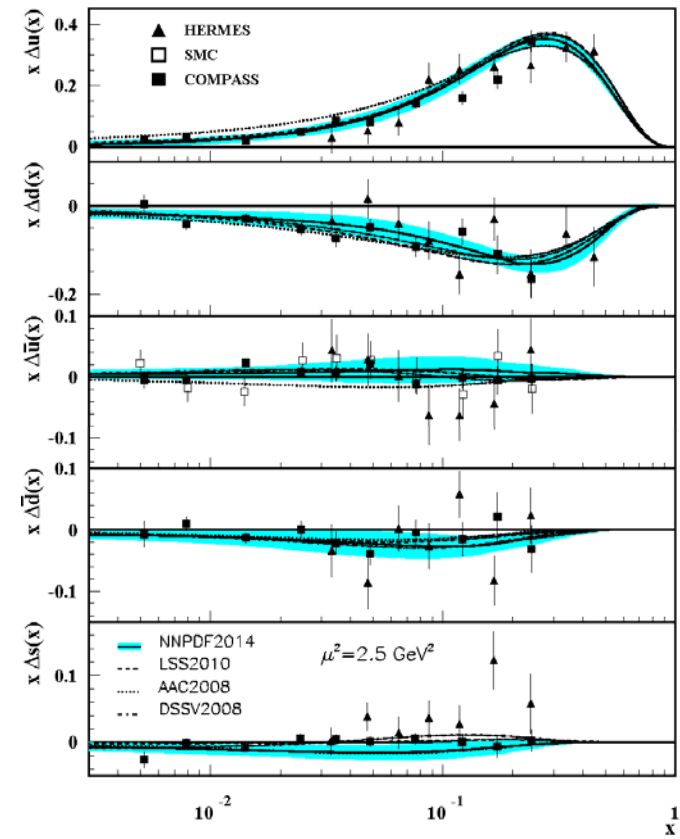
PDG

Review section, 'Structure functions'

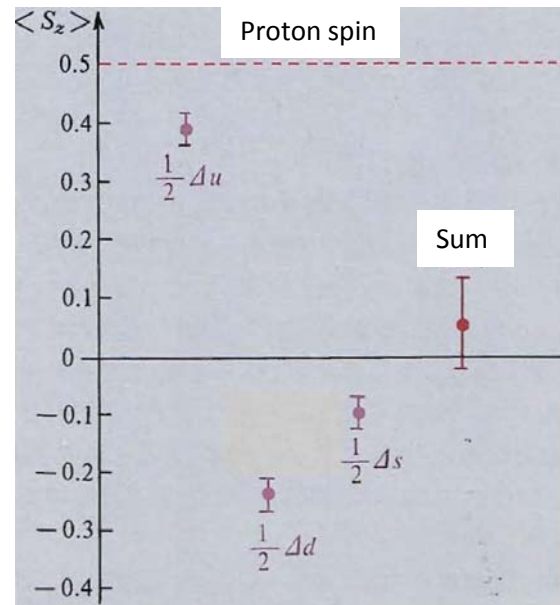
$x g_1(x)$



$x \Delta q(x)$



EMC's result, 1989



$(12 \pm 9 \pm 14) \%$

$\Delta\Sigma$ is now 30-35%