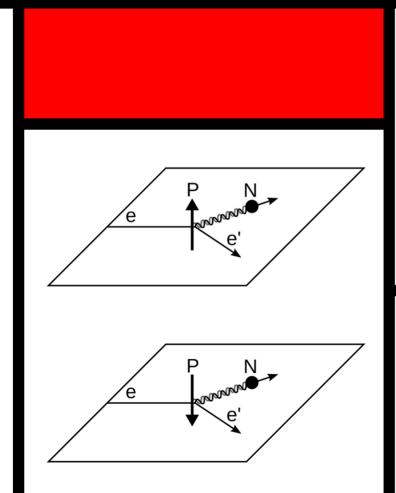
Beam-Normal Single-Spin Asymmetry



- Interference term amongst one- and multi-photon exchange
- Important background in parity violation experiments
- Experimental observation:
 - Elastic electron scattering
 - Polarisation perpendicular to scattering plane
 - Unpolarised target
 - => Count-rate asymmetry amongst polarisation states

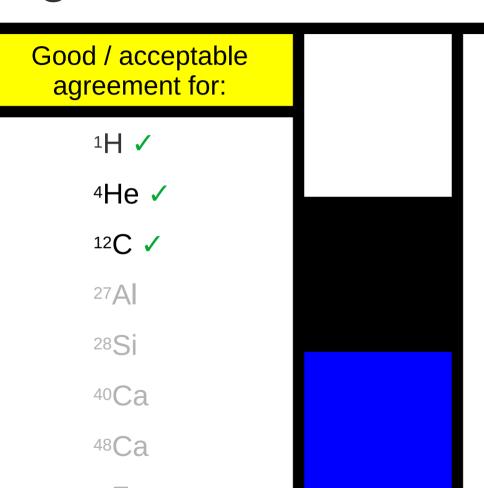
Dr. Anselm Esser for the A1 Collaboration



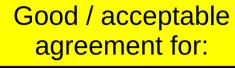




Agreement with Theoretical Calculations



Agreement with Theoretical Calculations



1H 🗸

⁴He ✓

12**C** 🗸

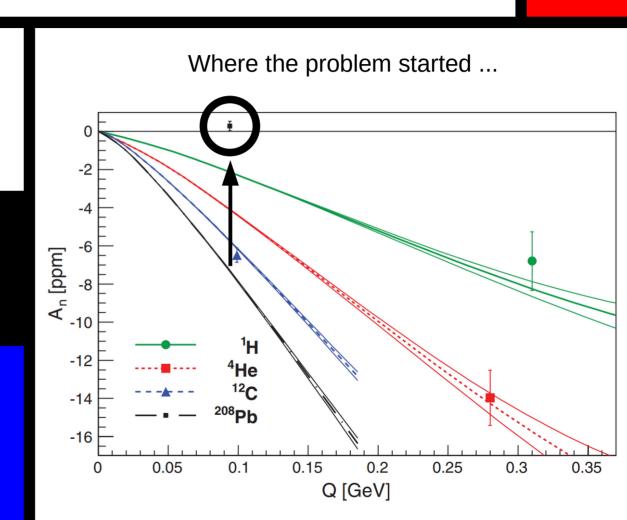
27**A**

28**S**i

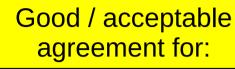
⁴⁰Ca

48**C**a

90**Z**r



Agreement with Theoretical Calculations



1H 🗸

⁴He ✓

12**C** 🗸

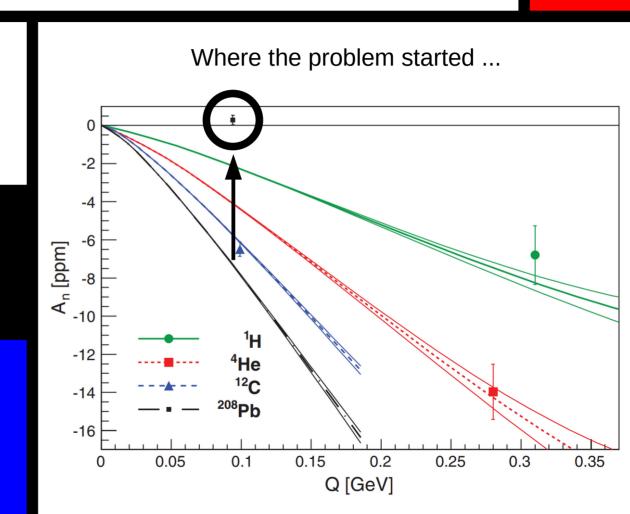
27**A**

28**Si** 🗸

⁴⁰Ca ✓

48**Ca ✓**

90**Z**r 🗸



New Measurement in Mainz

