Piet Mulders and the Amsterdam School



Pavia, May 24th, 2022

Travelling to Amsterdam and visiting Piet and his group at Vrije Universiteit has always been a joy and a culturally enriching experience. Piet has created a scientific cultural hub.



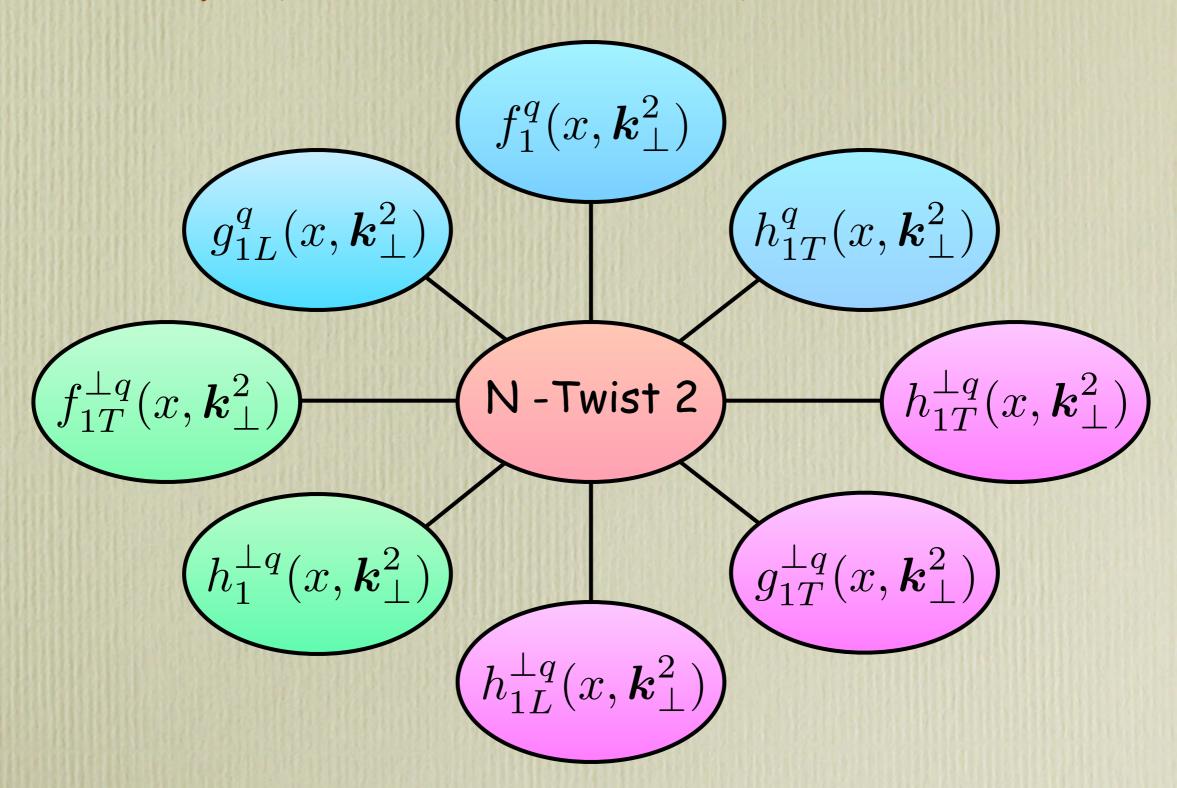


21 excellent PhD students, with beautiful PhD theses (and charming doctoral ceremonies) many successful postdocs, now active worldwide

seminal work in studying the nucleon structure

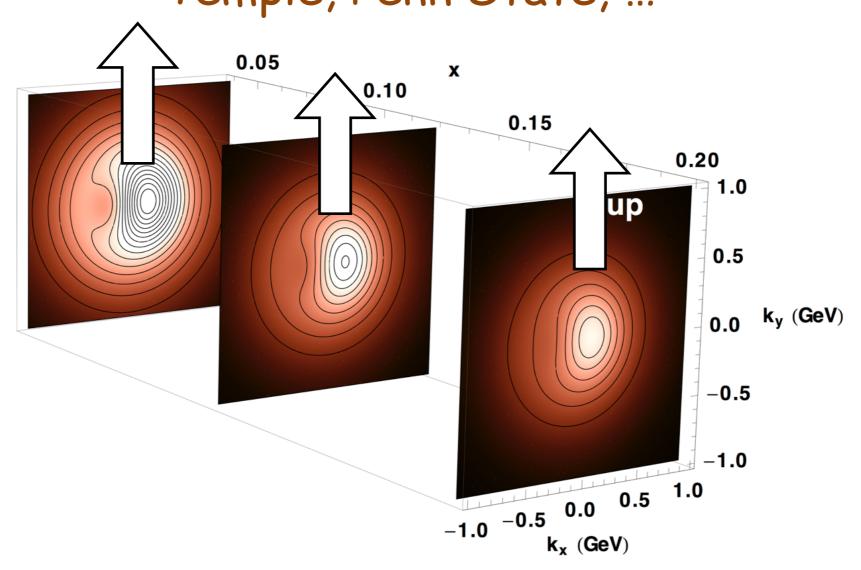
$$\begin{split} \Phi(x, \boldsymbol{k}_{\perp}) &= \frac{1}{2} \left[f_{1} \not h_{+} + f_{1T}^{\perp} \frac{\epsilon_{\mu\nu\rho\sigma} \gamma^{\mu} n_{+}^{\nu} k_{\perp}^{\rho} S_{T}^{\sigma}}{M} + \left(S_{L} g_{1L} + \frac{\boldsymbol{k}_{\perp} \cdot \boldsymbol{S}_{T}}{M} g_{1T}^{\perp} \right) \gamma^{5} \not h_{+} \right. \\ &+ h_{1T} i \sigma_{\mu\nu} \gamma^{5} n_{+}^{\mu} S_{T}^{\nu} + \left(S_{L} h_{1L}^{\perp} + \frac{\boldsymbol{k}_{\perp} \cdot \boldsymbol{S}_{T}}{M} h_{1T}^{\perp} \right) \frac{i \sigma_{\mu\nu} \gamma^{5} n_{+}^{\mu} k_{\perp}^{\nu}}{M} \\ &+ h_{1}^{\perp} \frac{\sigma_{\mu\nu} k_{\perp}^{\mu} n_{+}^{\nu}}{M} \right] \\ &+ P, S \end{split}$$

The famous Amsterdam notation



interpretation by Aram Kotzinian

and the related phenomenology (theory, experiments and interpretation):
HERMES, COMPASS, JLab, Pavia, Cagliari, Torino,
Temple, Penn State, ...



u-quark transverse momentum distribution inside a transversely polarised proton (courtesy of A. Bacchetta)

Piet has done and promoted high level theoretical research with strong impact in the hadron physics community

It is a bright example of international scientific education and activity, curiosity driven, based on free intellectual thinking and peaceful collaboration





On a more personal touch:
Piet and his wife biking
holidays

many thanks Piet, and many more years of happiness and adventures

