

3. RELATIONS AMONG "SOFT" FUNCTIONS

$$\phi^\Gamma = \frac{1}{2} T_2 (\phi \Gamma) \quad \Gamma = \text{DIRAC OP.}$$

COMPARING PARAMETRIZATION OF ϕ
WITH QCD PM DENSITY MATRIX g_c



$$f_1 = q \quad g_{1L} = \Delta q \quad h_{1T} = \Delta_T q$$

$$h_{1L}^\perp \approx -\frac{\sqrt{2}\mu_0}{p^+} \Delta q \quad g_{1T} \approx h_{1T}^\perp \approx \frac{\sqrt{2}\mu_0}{p^+} \Delta_T q \quad (m_q=0)$$

$$f^\perp = f_2 \quad (\text{CAHN EFFECT})$$

PROBABILITY DENSITIES \Rightarrow

$$\mu_0 = \frac{1}{\sqrt{2}} p^+ \rightarrow \frac{Q}{2}$$

$$h_{1L}^\perp \approx -g_{1L}$$

$$g_{1T} \approx h_{1T}^\perp \approx h_{1T}$$

$$f_1 \approx f^\perp$$

TRUE UP TO TERMS ORDER

$$\frac{g^2}{Q^2}$$

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