

Formalism

$$d\sigma^{DPS} = \frac{1}{2\sigma_{\text{eff}}} F_{gg}(x_1, x_2, \mu_1^2, \mu_2^2) F_{gg}(x'_1 x'_2, \mu_1^2, \mu_2^2) \\ d\sigma_{gg \rightarrow c\bar{c}}(x_1, x'_1, \mu_1^2) d\sigma_{gg \rightarrow c\bar{c}}(x_2, x'_2, \mu_2^2) dx_1 dx_2 dx'_1 dx'_2.$$

$F_{gg}(x_1, x_2, \mu_1^2, \mu_2^2), F_{gg}(x'_1 x'_2, \mu_1^2, \mu_2^2)$
are called **double parton distributions**

dPDF are subjected to special **evolution equations**

single scale evolution: **Snigireev**

double scale evolution: **Ceccopieri, Gaunt-Stirling**

