## Transverse Momentum Dependent Distributions in Hadronic Collisions

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Transverse momentum dependent (TMD) distributions could play a relevant role both in our understanding of the transverse spin structure of hadrons and in explaining the observed transverse single spin asymmetries (SSA). In a hard scattering model for inclusive hadronic reactions, based on a generalized QCD factorization scheme, many effects - namely the Sivers, Collins, Boer-Mulders effects (the last ones together with the still unknown transversity distribution,  $h_1$ ) - might originate a non vanishing SSA, making the phenomenological analysis much more involved. We show how the correct treatment of the partonic kinematics and dynamics (with proper phases) could help in disentangling the above mentioned effects and discuss their potential role in various inclusive hadronic processes, i.e.  $p^{\uparrow}p(\bar{p}) \rightarrow C + X$  with  $C = \pi, D, \gamma, \ell^+ \ell^-$ . In particular we focus on Dand  $\gamma$  production where quark as well as gluon TMD's can be accessed by a combined analysis in different kinematical configurations (i.e. forward, mid and backward rapidities at moderate and large energies) covered by ongoing (RHIC) and future (PAX, JPARC) experimental programmes.