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Gluon TMDs and Higgs boson production

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Recent activities on the determination of Transverse-Momentum Dependent Gluon Distributions (gluon TMDs) are reviewed. Several processes in lepton-proton and proton-proton collisions have been identified which give a clean access to gluon TMDs, in particular the back-to-back production of photon pairs, photon + Heavy Quarkonium pairs, ZZ-pairs, etc. It is also argued that gluon TMDs can be used as tools to determine the properties (such as the spin and the parity) of the newly found Higgs resonance at the LHC in the photon pair decay channel.

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