

TMD factorization at next-to-leading power

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Theoretical control of soft interactions is fundamental to establish TMD factorization. It is possible to systematically include soft interactions through soft modes in background field method to reach a consistent factorization of SIDIS or Drell-Yan cross sections at next-to-leading power, where all nonperturbative terms are expressed as matrix elements of field operators. As a practical example one can consider the case of jet production in SIDIS

Authors: SCIMEMI, Ignazio (Universidad Complutense Madrid); Mr JAARSMA, Max (NIKHEF); DEL RIO GARCIA, Oscar (Complutense University of Madrid); Prof. WAALEWIJN, Wouter (NIKHEF)

Presenter: SCIMEMI, Ignazio (Universidad Complutense Madrid)

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