

Challenges and Perspectives in Quarkonium Polarization Measurements

An extensive experimental program using quarkonium production to study QCD in hadron colliders is well under way. Differential cross-sections and spin alignments of the produced quarkonia play a central role and a number of theoretical models has been developed to interpret the measurements. This talk reviews existing polarization measurements and some related challenges. It then describes a new formalism recently developed to unambiguously study quarkonium polarization through a multi-dimensional analysis of the dilepton angular decay distributions and presents near-future prospects for improved measurements.

Author: KRÄTSCHMER, Ilse (Hephy Vienna)

Presenter: KRÄTSCHMER, Ilse (Hephy Vienna)