High Energy Physics - Phenomenology

Weighted azimuthal asymmetries in a diquark spectator model

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(Submitted on 5 Mar 2010)

We analytically calculate weighted azimuthal asymmetries in semi-inclusive lepton-nucleon deep-inelastic scattering and Drell-Yan processes, using transverse-momentum-dependent partonic densities obtained in a diquark spectator model. We compare the asymmetries with available preliminary experimental data, in particular for the Collins and the Sivers effect. We make predictions for other cases of interest in running and planned experiments.

Comments:	21 pages, 13 (multiple) figures in eps format, RevTeX4
Subjects:	**High Energy Physics - Phenomenology (hep-ph)**; High Energy Physics - Experiment (hep-ex); Nuclear Theory (nucl-th)
Cite as:	**arXiv:1003.1328v1** [hep-ph]

Submission history

From: Marco Radici [view email]

[v1] Fri, 5 Mar 2010 19:32:26 GMT (1578kb)

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