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Titolo	Codice civile e leggi collegate : versione ipertestuale con sentenze per esteso. Commento giurisprudenziale sistematico
Pubbl/distr/stampa	Padova : CEDAM, 2010
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Collana	Breviaria iuris
Lingua di pubblicazione	Italiano
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2. Record Nr.	UNINA9910300397903321
Autore	Nakamura Katsuro
Titolo	Longitudinal Double-Spin Asymmetry of Electrons from Heavy Flavor Decays in Polarized p + p Collisions at s = 200 GeV // by Katsuro Nakamura
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Soggetti	Nuclear physics Heavy ions Particle acceleration Physical measurements Measurement Nuclear Physics, Heavy Ions, Hadrons Particle Acceleration and Detection, Beam Physics Measurement Science and Instrumentation
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Nucleon Spin Physics -- Experimental Setup -- Electron Analysis -- Results -- Discussion -- Conclusion.
Sommario/riassunto	In this thesis, the measurement of double-spin asymmetry for electron production from heavy flavor decays was performed in a Relativistic Heavy Ion Collider (RHIC) in the PHENIX experiment at Brookhaven National Laboratory to measure the polarized parton distribution function of gluon in the small Bjorken x region ($x \sim 0.01$). For this experiment, for the first time a Hadron Blind Detector (HBD), which is a position-sensitive gas Cherenkov counter with Gas Electron Multiplier whose surface is evaporated by CsI, was employed. This HBD contributes to reducing the background from electron pairs produced by real and virtual photon conversion. Furthermore, the author develops a new analysis method for the background reduction, and the signal-to-background ratio is improved by a factor of roughly 2.0. Using the combination of the HBD and a new analysis method, the double-spin asymmetry of the electron production with transverse momentum ranging $0.5 < p_T < 3.0$ GeV/c is measured and confirmed to be zero-consistent within the limit of the statistical uncertainty of about 1%. This result identifies the constraint of the gluon polarization in the small Bjorken x region, a worldwide first.