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PHENIX W to mu measurements in polarized proton-proton collisions

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The Parity violation of the weak interaction allows to use real W production in polarized proton-proton collisions as a tool to select

both helicity and flavor of the participating quarks and antiquarks.

With W+ production one is mostly sensitive to u and dbar quarks while W- production selects d and ubar quarks. The PHENIX experiment at RHIC has been taking data over the past several years at center of mass energies of around 500 GeV to measure W single spin asymmetries in the inclusive decays into muons at forward rapidities. The latest results will be presented.

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