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# PHENIX W measurements in polarized pp collisions

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The measurement of the single spin asymmetry of parity violating W boson production in longitudinally polarized proton collisions provides unique and clean access to the light sea quark helicity distributions. The W boson couples only to left handed quark and right-handed anti quark, and hence one can directly relate the charge of the W with initial state quark flavors. The PHENIX experiment at RHIC has performed the single spin asymmetry measurements at $\sqrt{s}$ = 510 GeV in 2011-2013. W bosons are accessed through their lepton decays at PHENIX, electrons at mid-rapidity ($|\eta| < 0.35$) and muons at forward rapidity ($1.2 < |\eta| < 2.4$). The analysis status and recent results will be presented.

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