



Contribution ID: 18

Type: **not specified**

Lambda Polarization in Heavy Ion Collisions

Friday 7 March 2014 15:20 (25 minutes)

Non-central heavy ion collisions provide a system with non-zero net angular momentum. If the spin degrees of freedom equilibrate in the fireball, then emitted particles are expected to exhibit a net spin. Lambda baryons are self analyzing, meaning proton daughters are emitted preferentially in the direction of the spin, making the Λ an ideal candidate for the determination of the net spin of the produced particles. Net Λ polarization has been predicted several times - Becattini et. al (arXiv:1304.4427v2 [nucl-th] 10 Jul 2013) recently predicted a maximum polarization of 7-9% via hydro –but it has not yet been observed. We will present preliminary measurements of net Λ polarization from STAR.

Author: UPSAL, Isaac (Ohio State University)

Presenter: UPSAL, Isaac (Ohio State University)