

Status of DNP 2022 Abstract: “Results from a modified R_{Ψ_2} observable in isobar collisions at STAR”

- R_{Ψ_2} observable for Chiral Magnetic Effect (CME) search in isobar breaks each event into two subevents.
 - R_{Ψ_2} uses a single shuffled charge separation (ΔS) distribution for normalization, whereas the modified R_{Ψ_2} uses two ΔS distributions.
 - R_{Ψ_2} averages ΔS from the two subevents, whereas the modified R_{Ψ_2} treats them separately.
 - We have compared R_{Ψ_2} and the modified R_{Ψ_2} . There is a considerable difference, and these findings were presented at FCV and CME meeting a few weeks ago
- Use Event Shape Engineering (ESE) to look at how R_{Ψ_2} (both modified and unmodified) depends on v_2 and q_2 .
 - Ongoing, hopefully ready for CME meeting this Friday (7/1) and FCV next Wednesday (7/6)
- Resource Request: NONE, that we can think of