# Inclucive Jet $R_{AA}$ and $v_2$ Analysis



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# Add v2 measurement

### **Clarify the jet suppression mechanism**



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# **Current Progress**

- 1. Event plane calibration code
- 1-1. Test run of the code
- 1-2. Apply to PWGJE framework from Flow Group one.
- 1-3. Apply this code for train
- 1-4. Run train
- 3. Mearsure the Raw jet for each event plane
- 3-1. Test run a simple code that gets event plane[w/o calibration]
- 3-2. Impliment more detail  $v_2$  calculation code (on-going)
- 3-3. Run train code
- 4. Embedding
- 5. Unfolding
- 6. Systematic Error

# **Qnvector Calibration for Event Plane**

#### Flow vector from detector measurement



Qn vector calibration

1. Gain eualization of indivdual detector channel

$$M'_{c} = \frac{M_{c}}{\langle M'_{c} \rangle}$$

2. Recentring

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$$\boldsymbol{q}'_n = \boldsymbol{q}_n - \langle \boldsymbol{q}_n \rangle$$

### Gain Calibration



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### Recentering

2. Recentring  $\boldsymbol{q}'_n = \boldsymbol{q}_n - \langle \boldsymbol{q}_n \rangle$ 



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