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## **Longitudinal structure of jets in heavy ion collisions**

There are many studies on the jet induced medium response effect within various jet observables. However, it is difficult to find the solid evidence of jet induced medium response due to different model description of the medium recoils and medium induced emissions and large medium background in heavy ion collisions. In this work, we investigate the longitudinal structure of jet to identify the jet induced diffusion wake and further study the correlation between jet and flow in heavy ion collisions.

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