# Integrating Jets Into epic-analysis

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ePIC Jets and HF Working Group Meeting

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# Background

- My interests include hadron-in-jet asymmetries and other jet-based TMD measurements

- I contacted Brian in December and asked how I can join the ePIC jets effort
  - He suggested working on integrating jets into the epic-analysis framework as a task

- Met with Chris Dilks and Brian last week to discuss the needs for jets in epic-analysis
  - Today is a recap of that short discussion and a plan moving forward

# Jet Needs in epic-analysis

- Currently jets are integrated into fast simulation (AnalysisDelphes) only
  - Needs to be connected to the AnalysisEpic class

- My current (preliminary) goals in no particular order:
  1. Tackle github Issue #234: Pull the jets information out of the current Kinematics class and place it into a newly created JetsKinematics class
  2. Create jets specific (kinJets, kinJetsTrue) variables in the Analysis class
  3. Integrate jet functionality into AnalysisEpic in a similar way to AnalysisDelphes class
  4. Other things to add to this list?

# EICrecon Jet Taskforce

- How will AnalysisEpic accept as input the output from EICrecon?
  - Will need to be in close contact with the jet taskforce

- I would like to maintain contact with the jet taskforce and attend meetings as my schedule allows, please add me to any necessary email list