

# Improvement of GNN-based algorithm for full-event filtering and interpretation at the LHCb trigger

Andrii Koval  
Taras Shevchenko National University of Kyiv

Mentor: Jonas Eschle (University of Zurich)

# What is the project about?

## Big picture

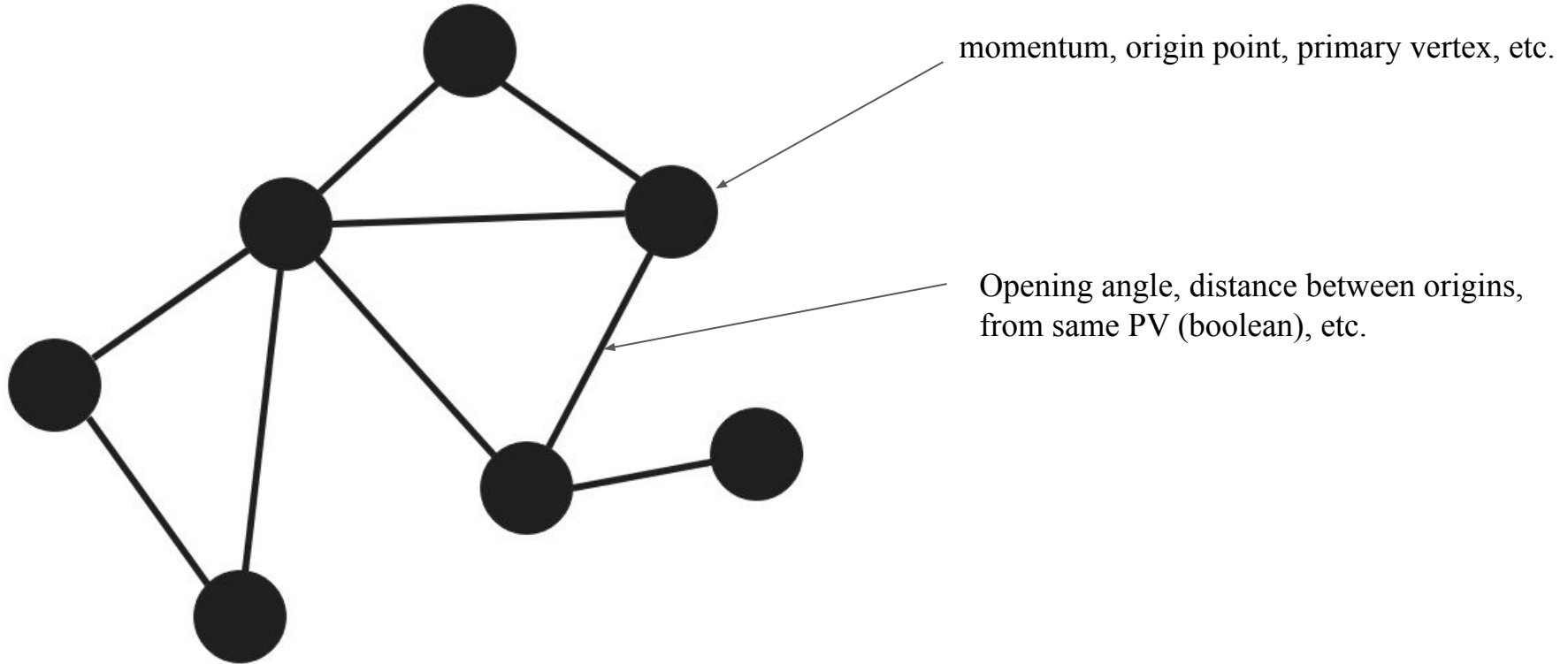
Create the GNN-based algorithm to:

- Identify particles that come from the decay of a beauty or charm heavy hadron
- Reconstruct the hierarchical decay chain through which they were produced

## My role

Improve the speed performance of the existing algorithm by implementing new approaches (GRAVNET, GARNET)

# Events as graphs



Thank you for attention!  
Have a great day!