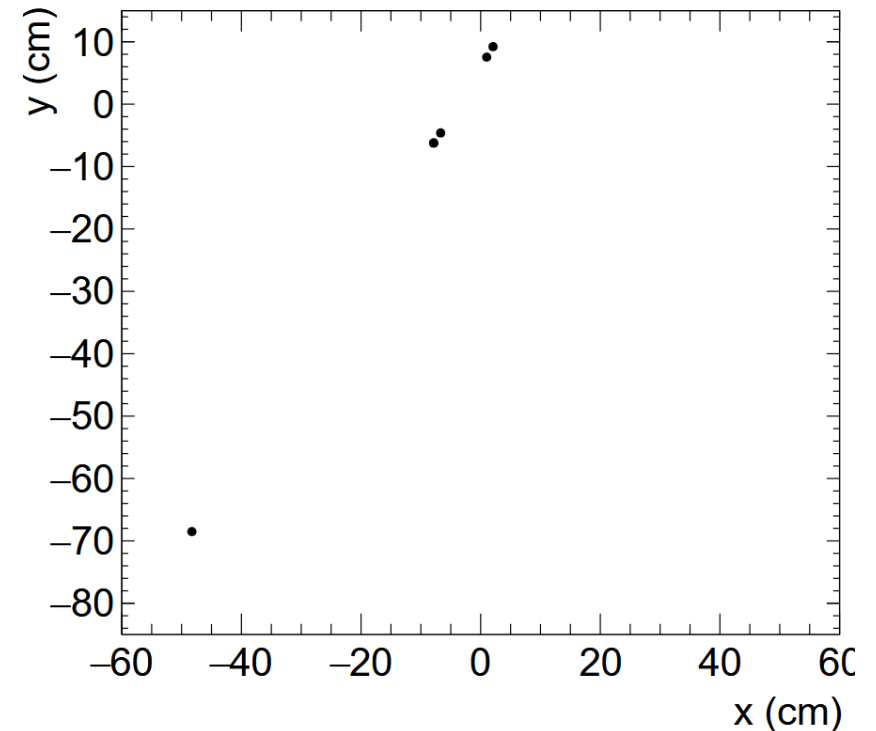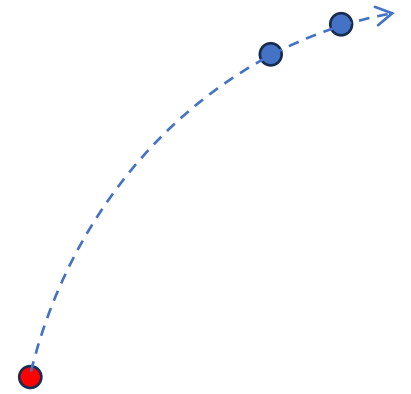# Toward Physics Analysis

- Current situation: Run1 ended.
  - RHIC stopped running this year because of the magnet problem
  - Tracking detectors
    - TPC & MVTX couldn't take data during the commissioning
      - TPC: Spark problem, MVTX: beam background
      - The same issue also may happen in the next year
    - INTT works nicely basically
      - **INTT successfully measured the Z-vertex event by event**
      - INTT-tracklet is useful as track-seed for PHYSICS

- Software development is necessary for further Physics analysis and detector operation for the next year

Topics on software development

- INTT variables for common use
  - Z-vertex
  - pT measurement by INTT-tracklet
    - Tracket (2points) + Z-vertex (beam spot)
  - Multiplicity (dN/deta as a function of centrality) with B-off
    - Can be 1st physics result

- Development
  - Software modules for z-vertex and pT
  - Geometry calibration (Joseph, ChengWei)
  - Hot channel map (Joseph, Jaein)
  - MIP peak
    - Normal data
    - DAC scan
    - Cosmic
  - Simulation study
    - Study pT reconstruction and its performance
  - Associate with the outer detector (TPOT, EMC)
  - Others

- Will prepare google spread sheet and ask you topics which you are interested in

- Necessary to study the INTT performance
  - MIP peak
  - Timing resolution