What we need to understand DONUT properties

- Understanding on biases
  - Stripping, Vertex prediction, Location…
    - CC/NC ratio, ν_μ/ν_e ratio, neutrino energy spectrum…
    - Primary vertex depth and station dependencies ….
  - Decay search
    - Number of charms….
    - Distribution …..
- Kinematical information is important

Kinematical information

- CC/NC, ν_μ/ν_e ratio
  - muon and **electron ID**
- Located events neutrino energy, overall location efficiency
  - **Charged particle momentum**
  - Electron energy, EM-cal energy…
- **We need these to understand our sample.**