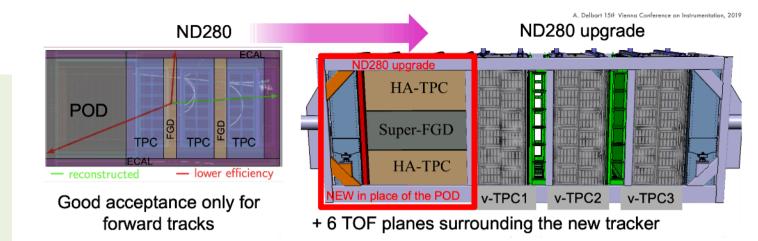
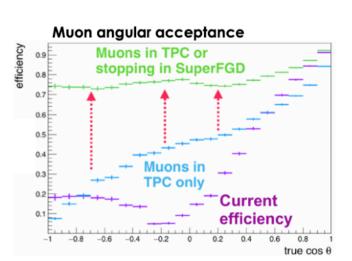
## Motivation:

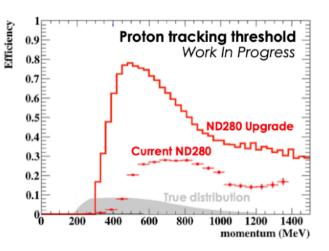
- → ND280 has limited acceptance for tracks with high angle
- Low efficiency to reconstruct the hadronic part of the interactions, therefore, only muon kinematics are accessed for T2K oscillation analysis
- ▶ The highly segmented target for **Super-FGD** → improve the reconstruction of hadronic part and low momentum leptons
- ▶ 2 new **HA-TPC** → improve the reconstruction of high angle leptons
- ▶ 6 ToF planes → reduce background from the outside of SuperFGD



The upgraded configuration of ND280 is expected to reduce the overall systematic uncertainty to 4%



Efficiency to select CCOpi events



installation of the upgrade in the first half of 2023