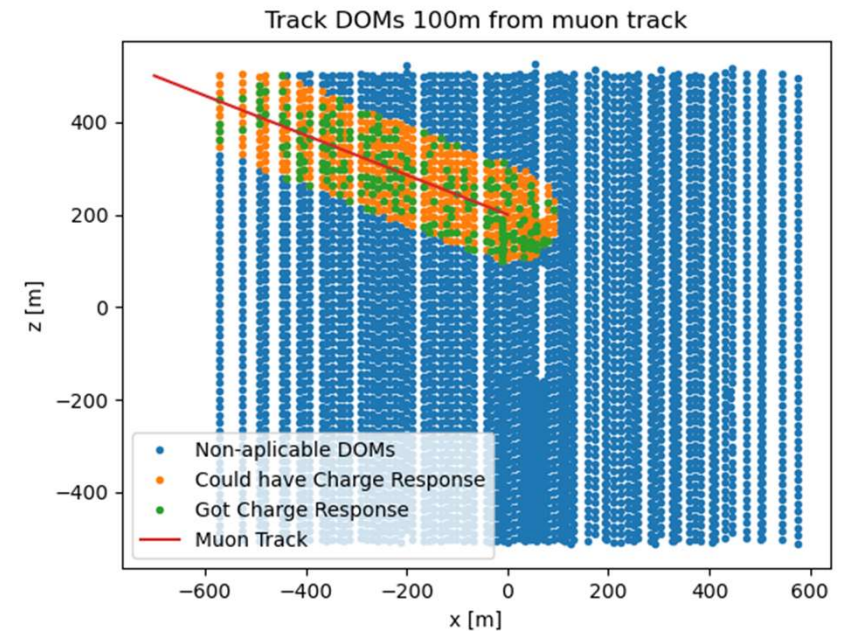# RIDE Update – 09/04/2021

Sofus Stray

Weekly NBI Meeting
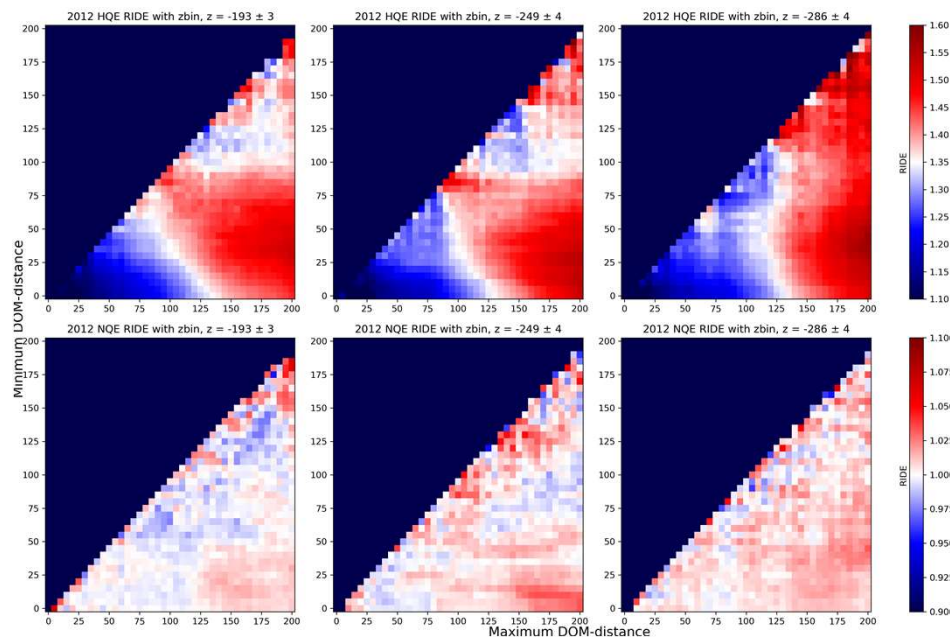
Refresher

- Group Analysis
  - Scan over zenith angle and distance from DOM to track
  - See which combination provides RIDE = 1.35
- TCN
  - Neural Network
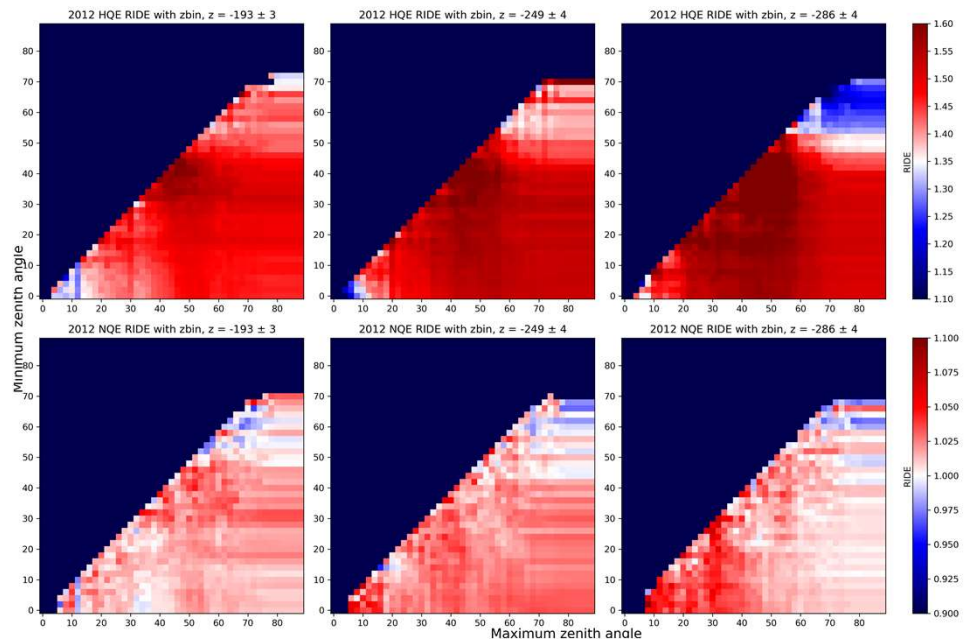 - Try to predict if a muon stops inside detector

Track DOMs 100m from muon track

Current group analysis (2012)
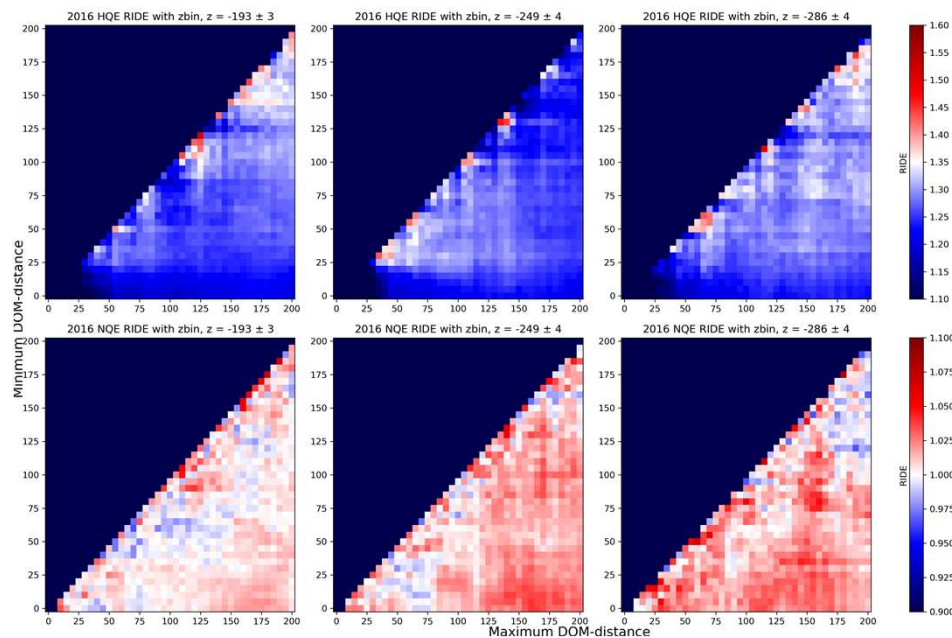
DOM-distance scan (full zenith range)
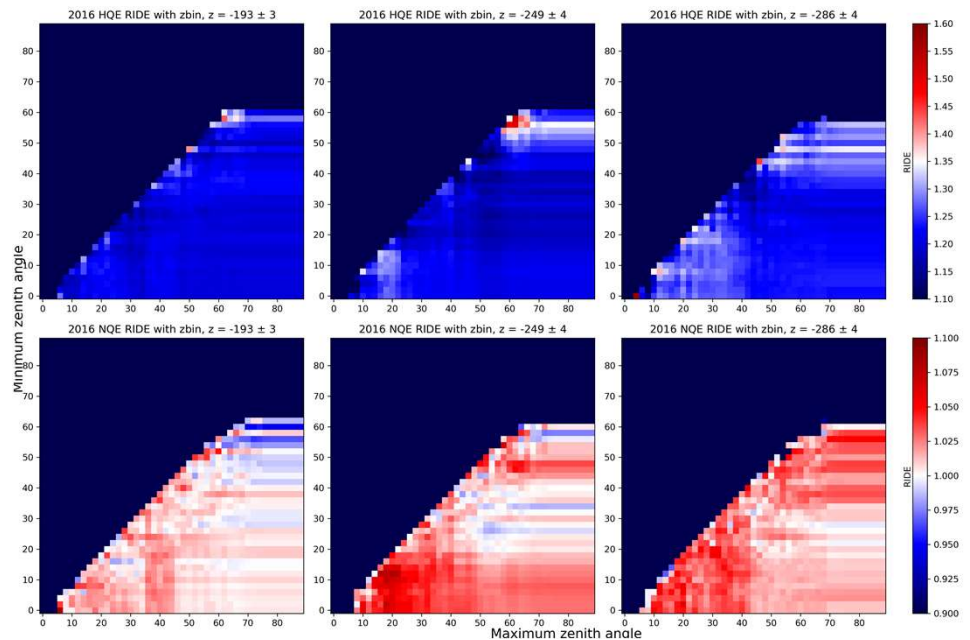
Zenith-angle scan (DOM-distance = [0,200]

- Very clear point of interest in DOM-scan
- No reason to do any zenith cuts based on data
- NQE values very noisy but within ~5% error

Current group analysis (2016)

DOM-distance scan (full zenith range)

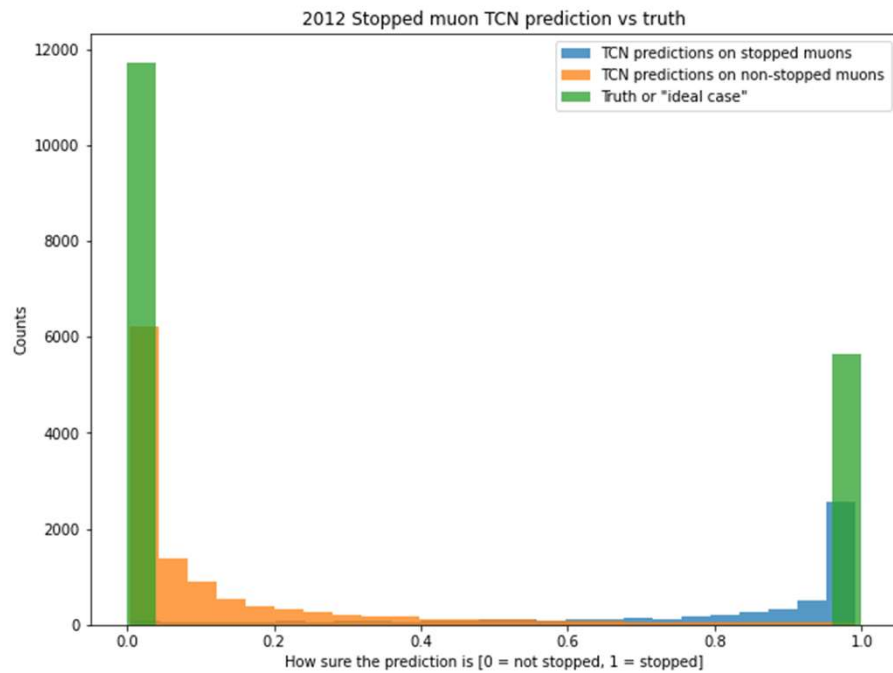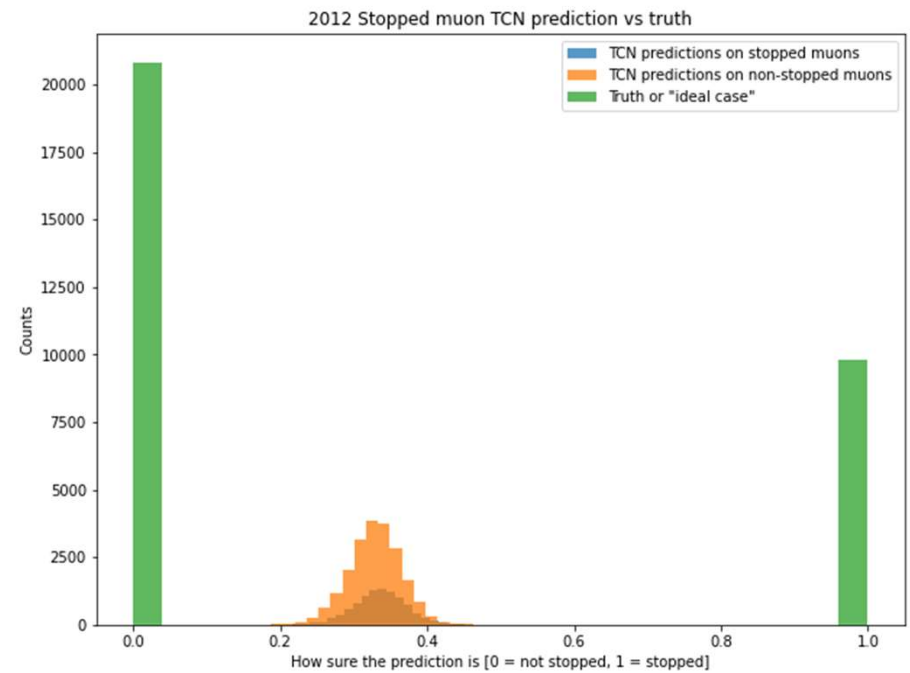**Zenith-angle scan (DOM-distance = [0,200]**

- No longer any clear DOM-distance RIDE = 1.35 line
- Possible ~1.30 near [30,125]m
- Zenith cut predictions similar

TCN Update

2012 ☺

2016 ☹

TCN Update

2012 ☺

2016 ☹
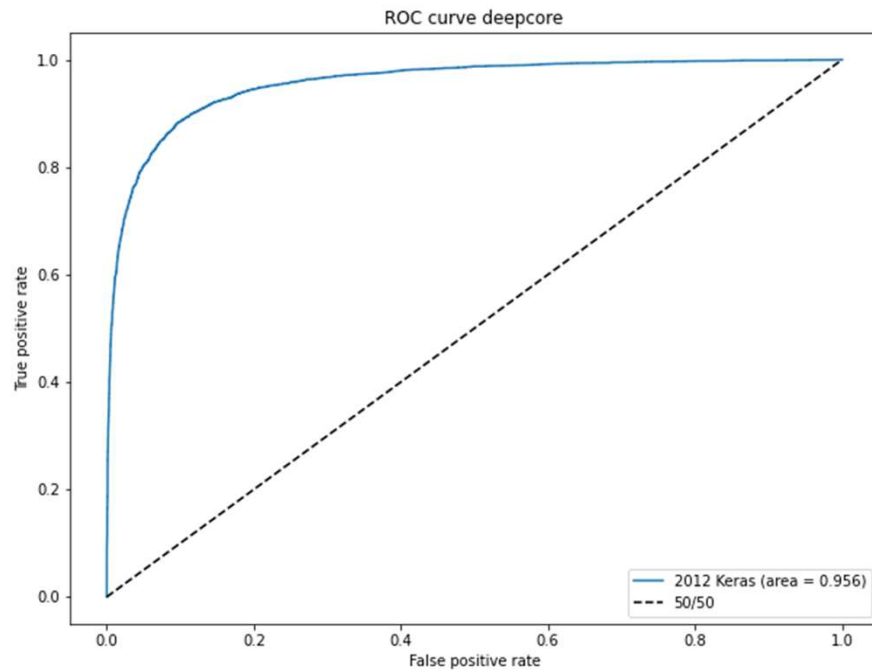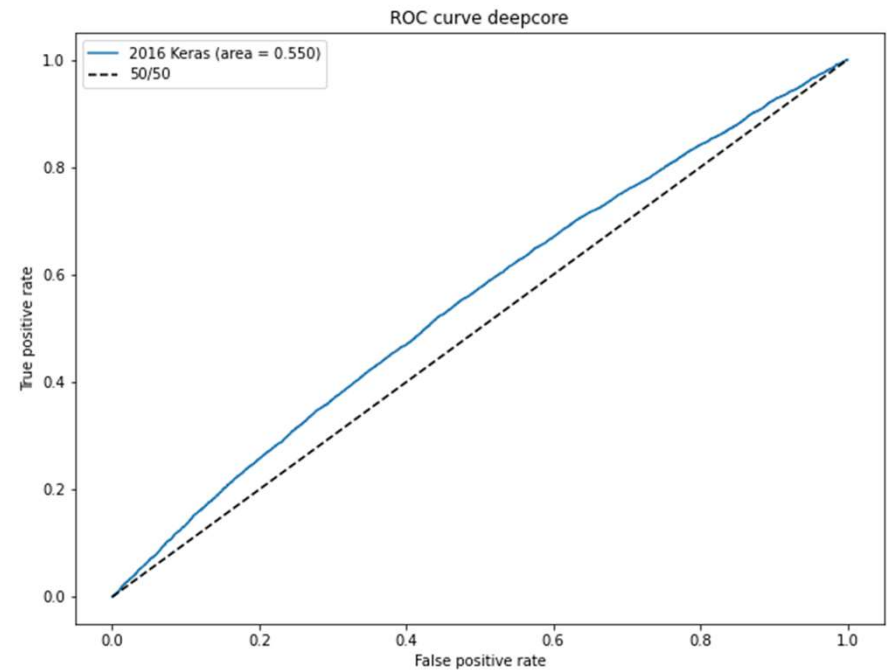
Summary & Next steps

- As mentioned earlier, stop chasing 1.35 for 2016
- TCN currently at standstill