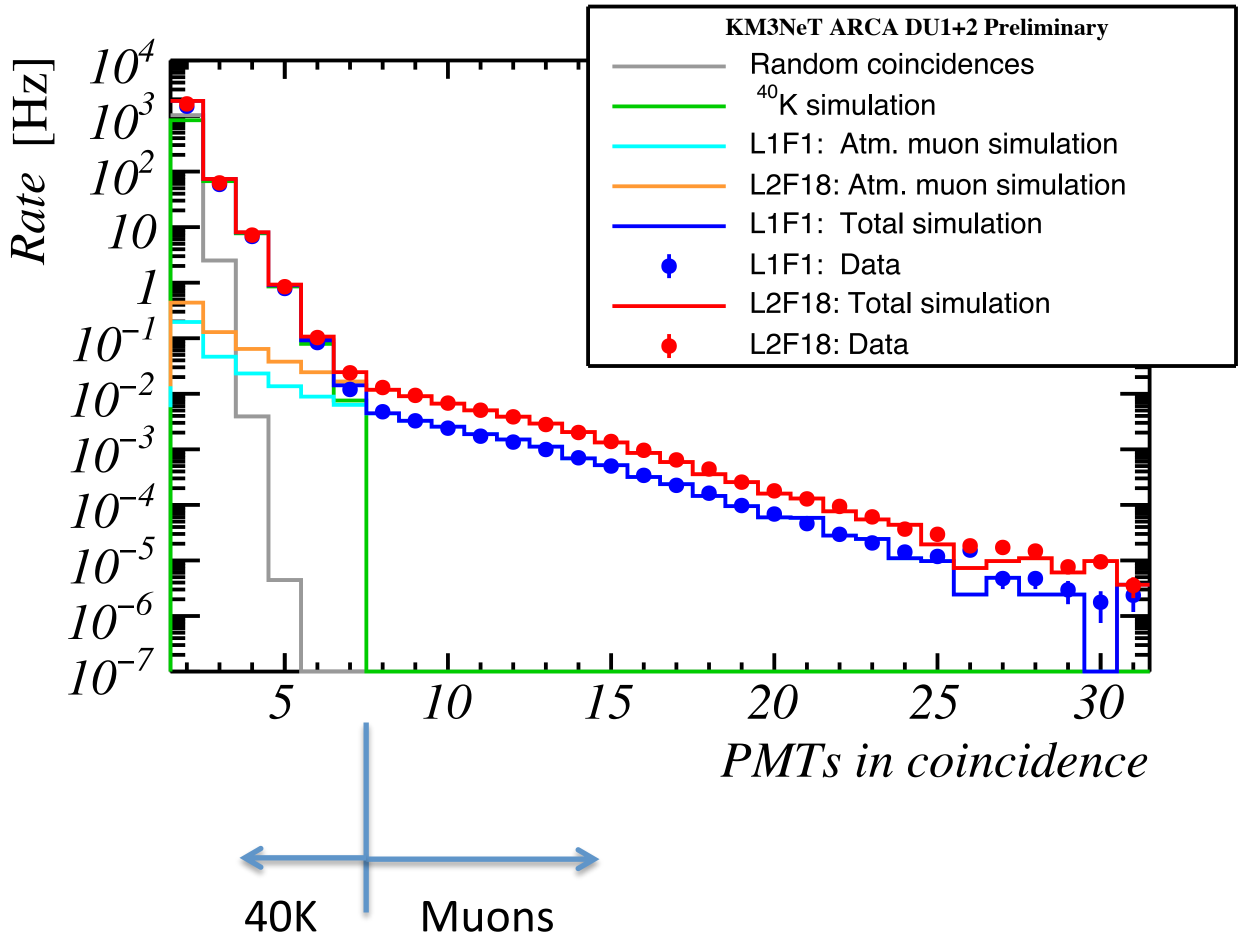
Muon Depth Dependence Paper

Historical Overview

- December 2015: First data
- Summer 2016: First depth dependence plots
  - Paul & Ronald: Should be in paper
  - Detailed MC (unofficial, rbr)
- December 2016: Politics and such
  - Official MC not compatible with data
- Summer 2017: ICRC presentation+proceedings

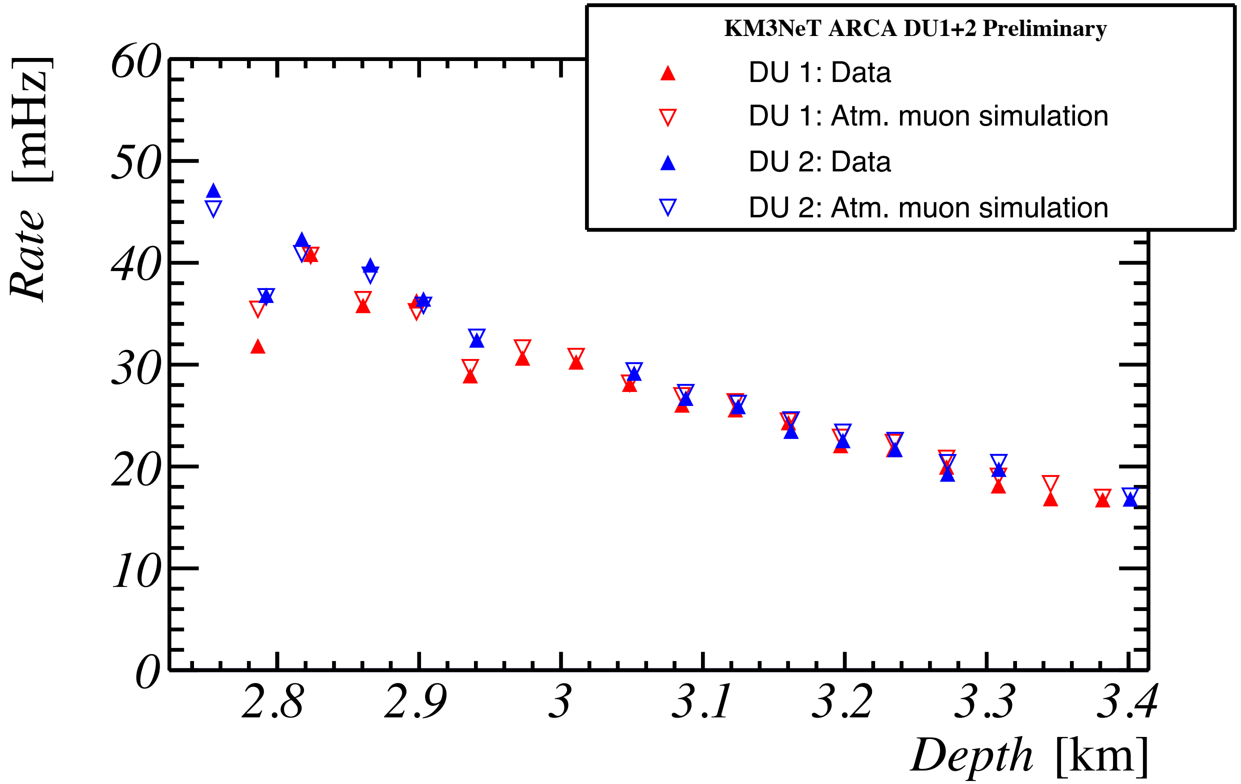
Use in paper

Muon Multiplicity

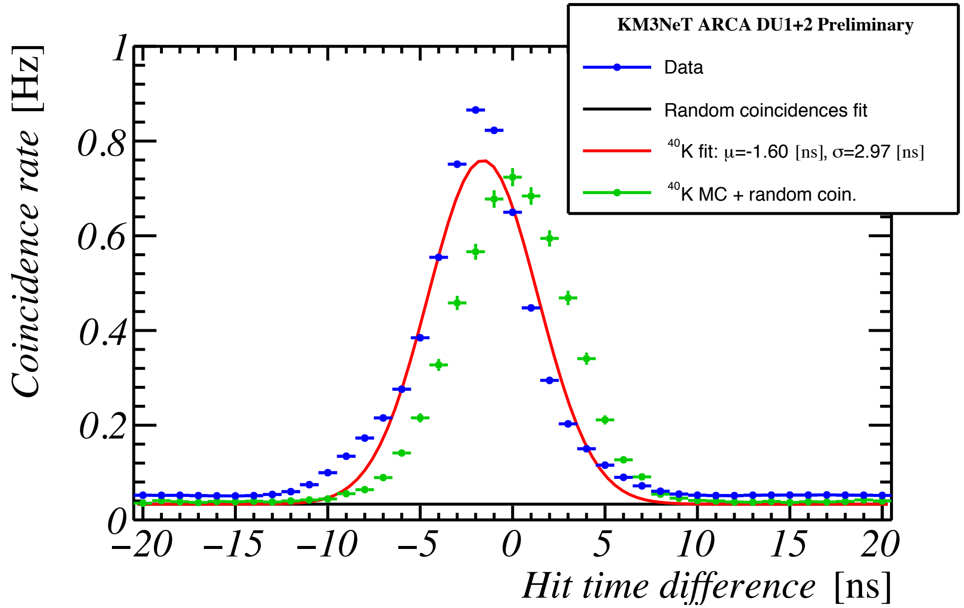


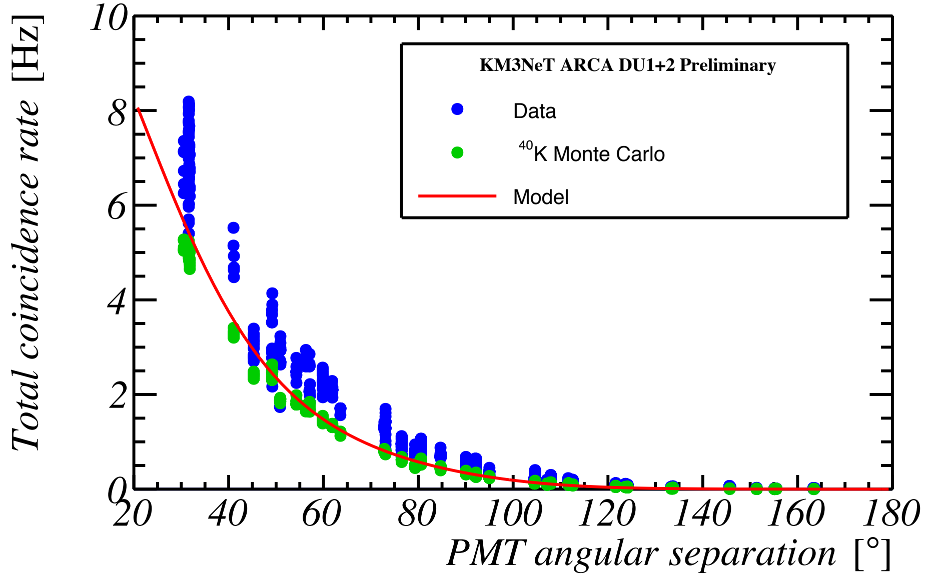
Use in paper

Muon Depth Dependence



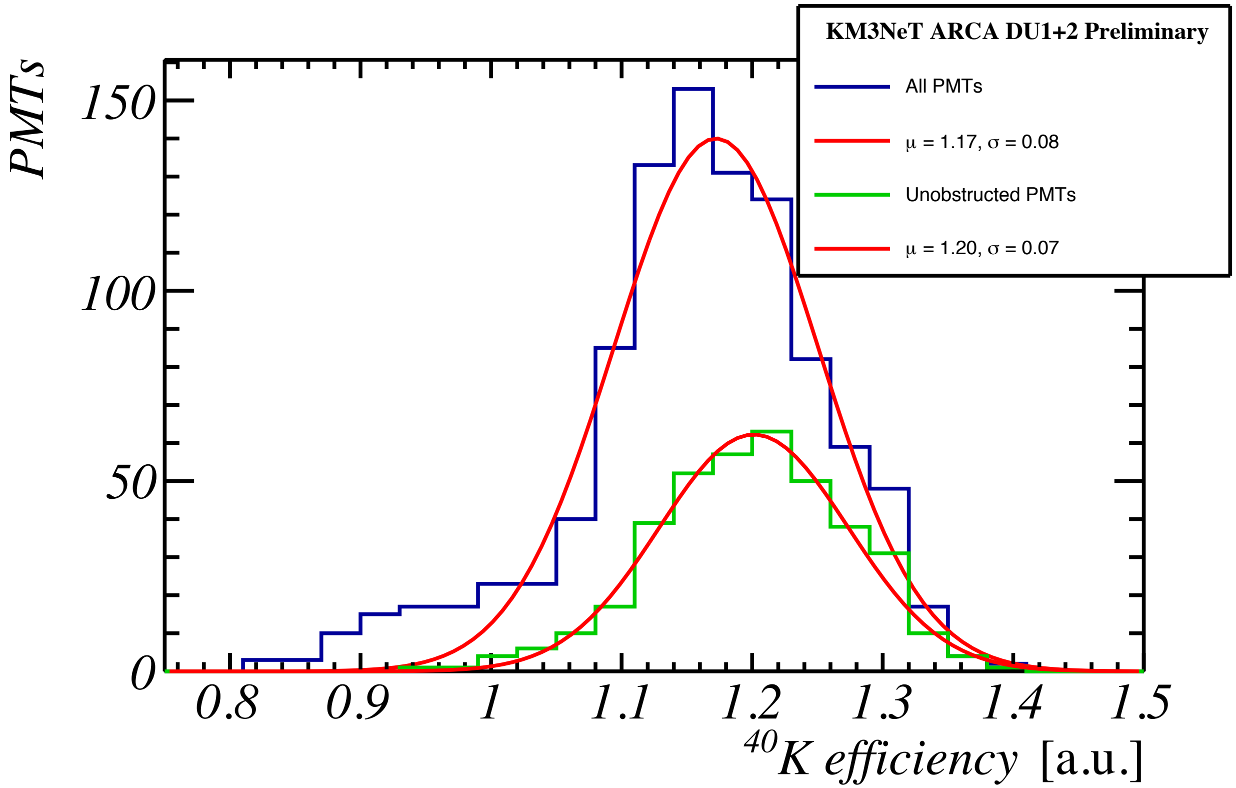
Monte Carlo Simulations





Use in paper

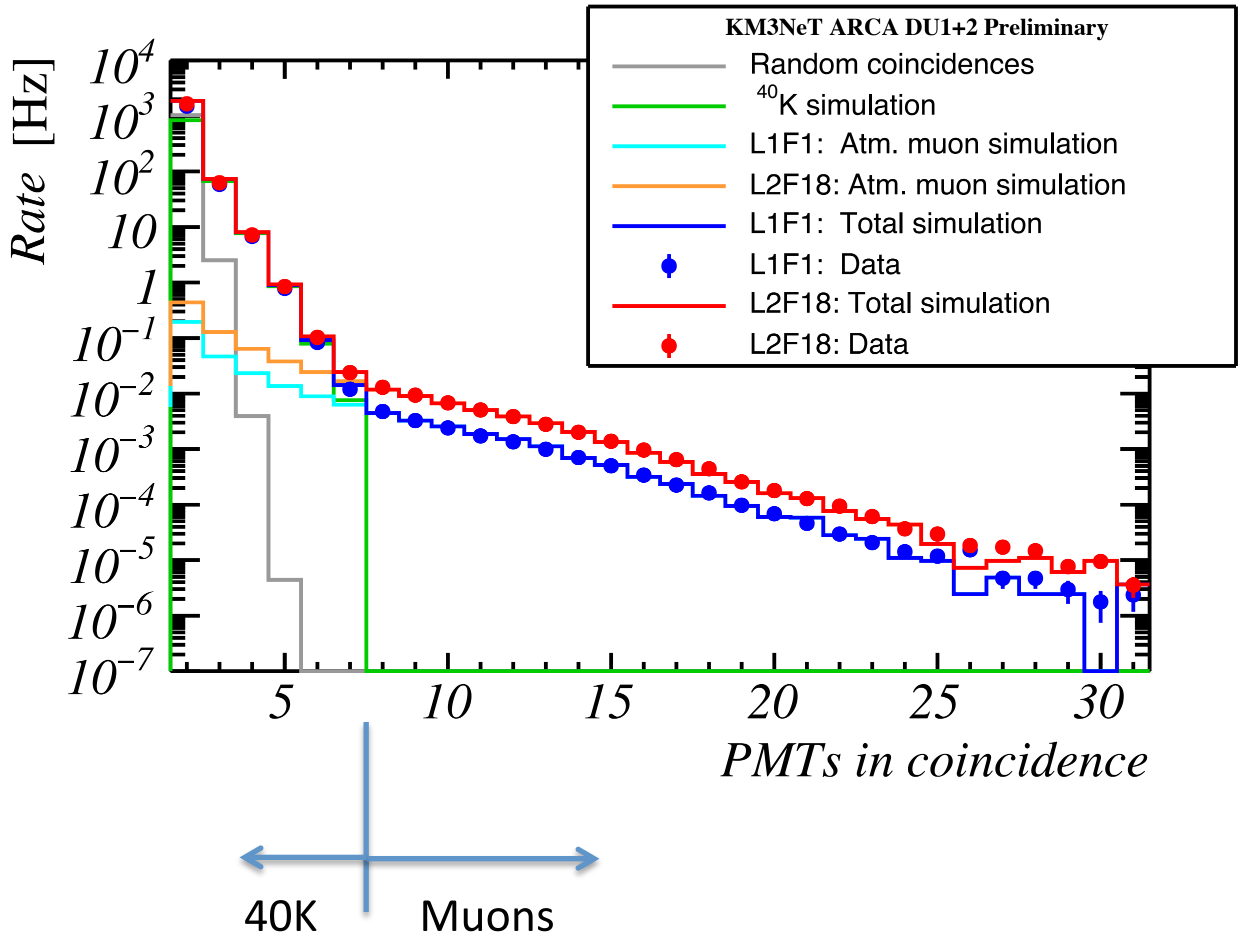
PMT efficiencies



Checks with Martijn

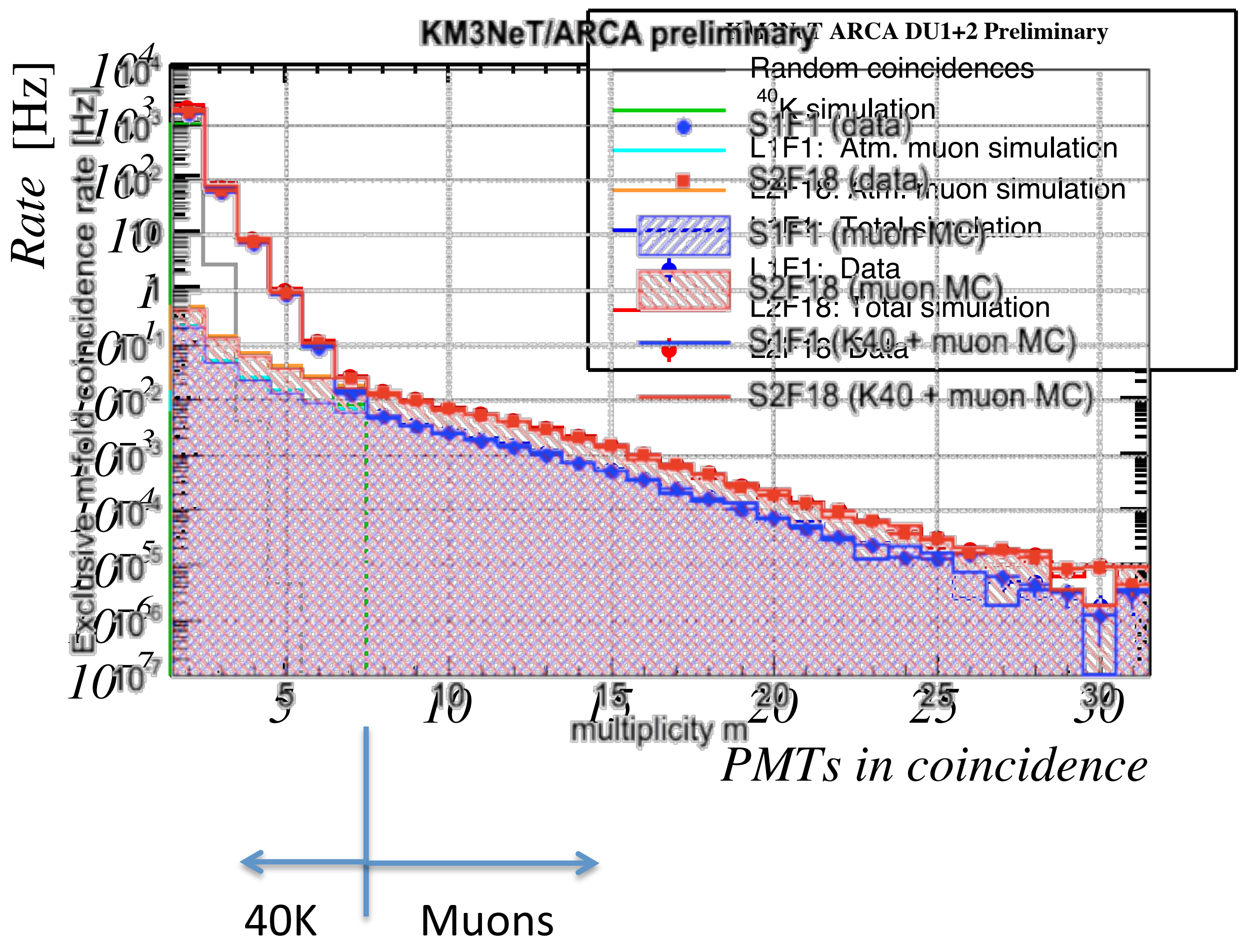
Use in paper

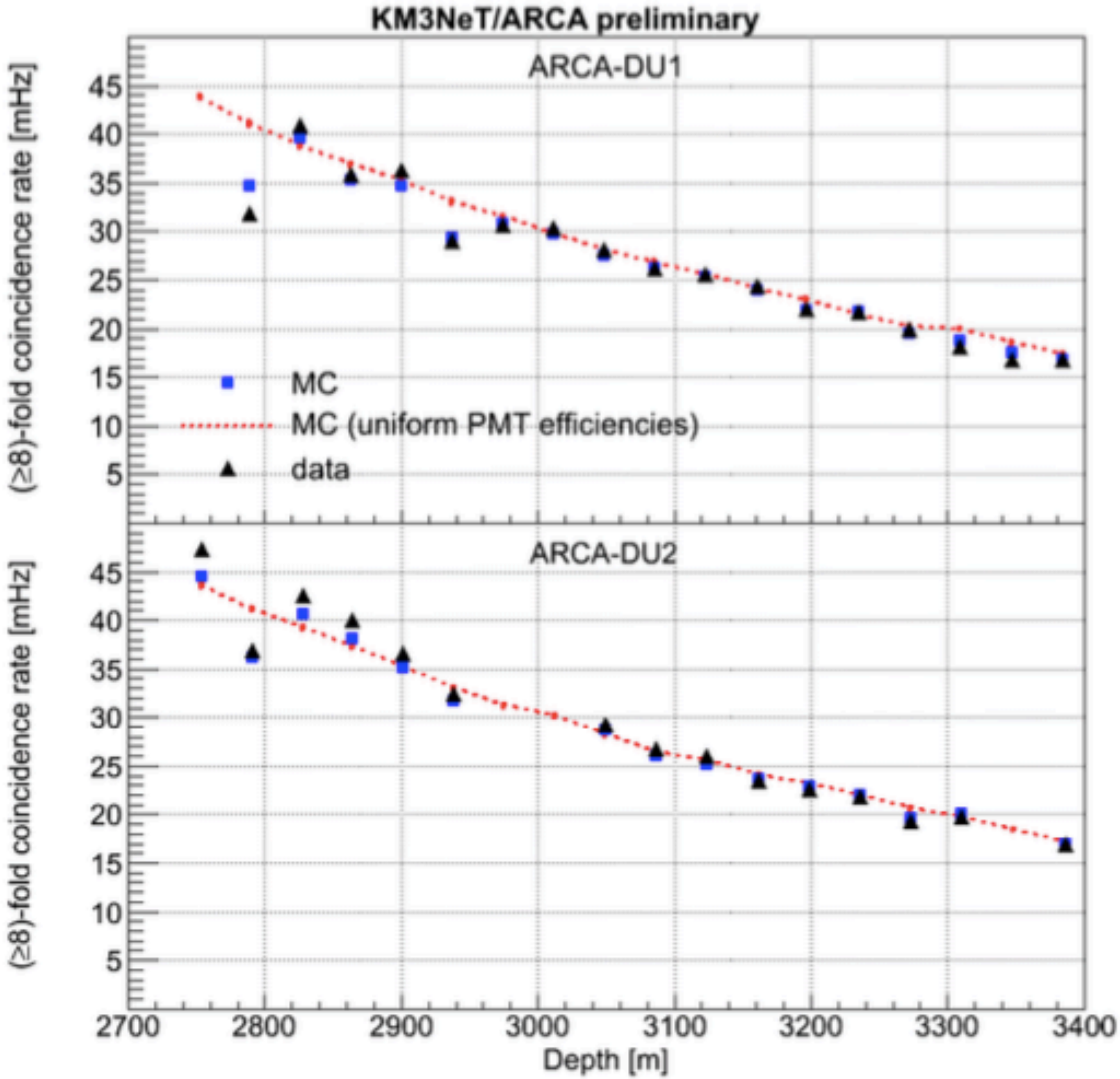
Muon Multiplicity



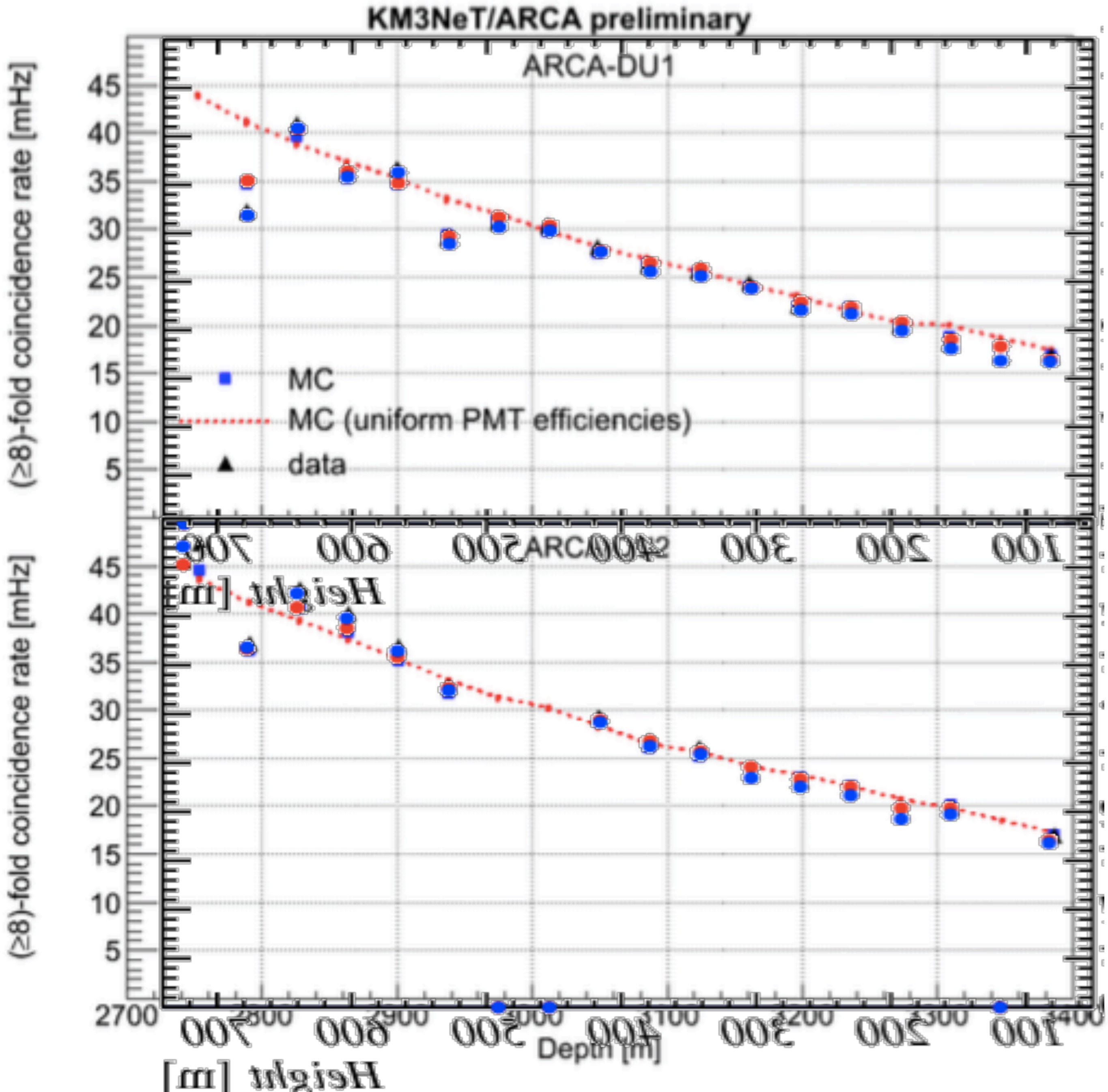
Use in paper

Muon Multiplicity



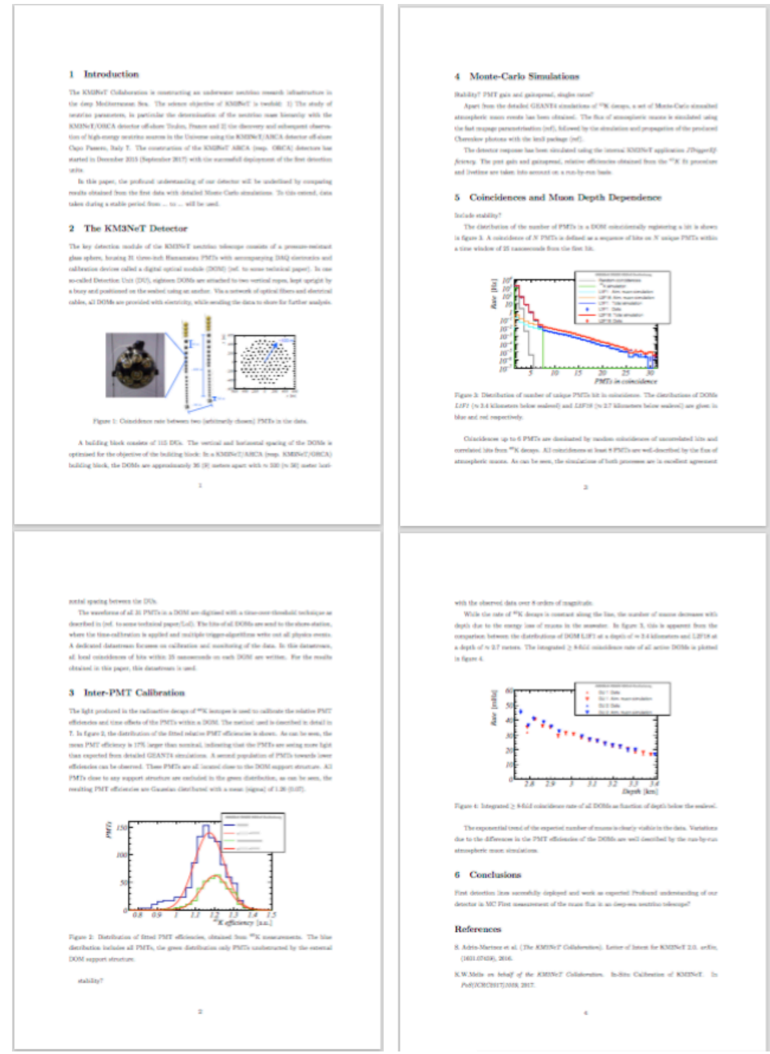


KM3NeT/ARCA preliminary
ARCA-DU1
ARCA-DU2
(≥8)-fold coincidence rate [mHz]
Depth [m]
MC
MC (uniform PMT efficiencies)
data


KM3NeT/ARCA preliminary
ARCA-DU1
MC
MC (uniform PMT efficiencies)
data
ARCA-DU2
(≥8)-fold coincidence rate [mHz]
Depth [m]

Outlook

- Include ORCA data
  - MC needed
- Some additional plots?
- Improve draft text



Jeroen & Dorothea @ Rabat