Group Meeting – 14/03/19

- Files:

  JTE.KM3Sim.gseagen.muon-CC.3-100GeV-9.1E7-1bin-3.0gspec.ORCA115_9m_2016.*.root

  orca_115strings_av23min20mhorizontal_18OMs_alt9mvertical_v1.det

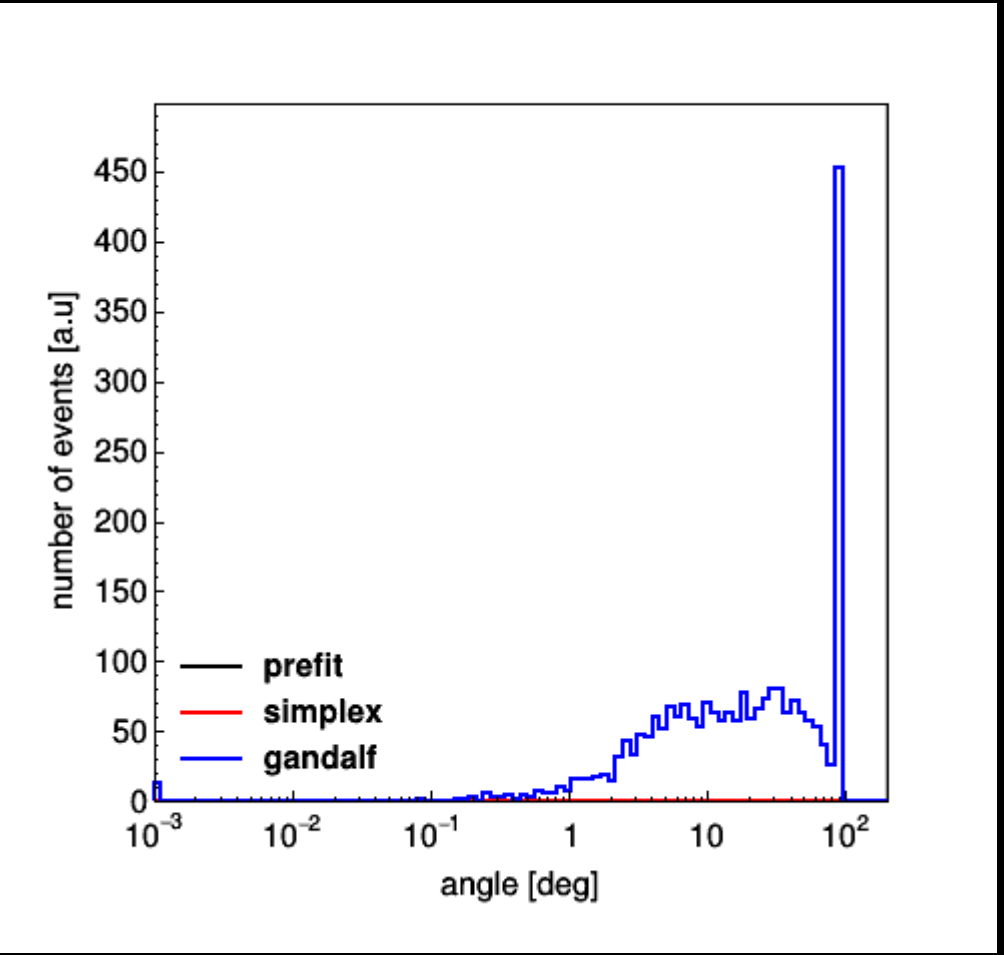
  /in2p3/km3net/mc/atm_neutrino/KM3NeT_ORCA_115_23m_9m/v1.1.1/

- As a means of improving JGandalf, I ran JMCEvt (takes Monte Carlo truth as starting point for Gandalf), then ran JGandalf…

  (in principle should give JGandalf the best starting positions to fit to)

- JMCEvt → JGandalf

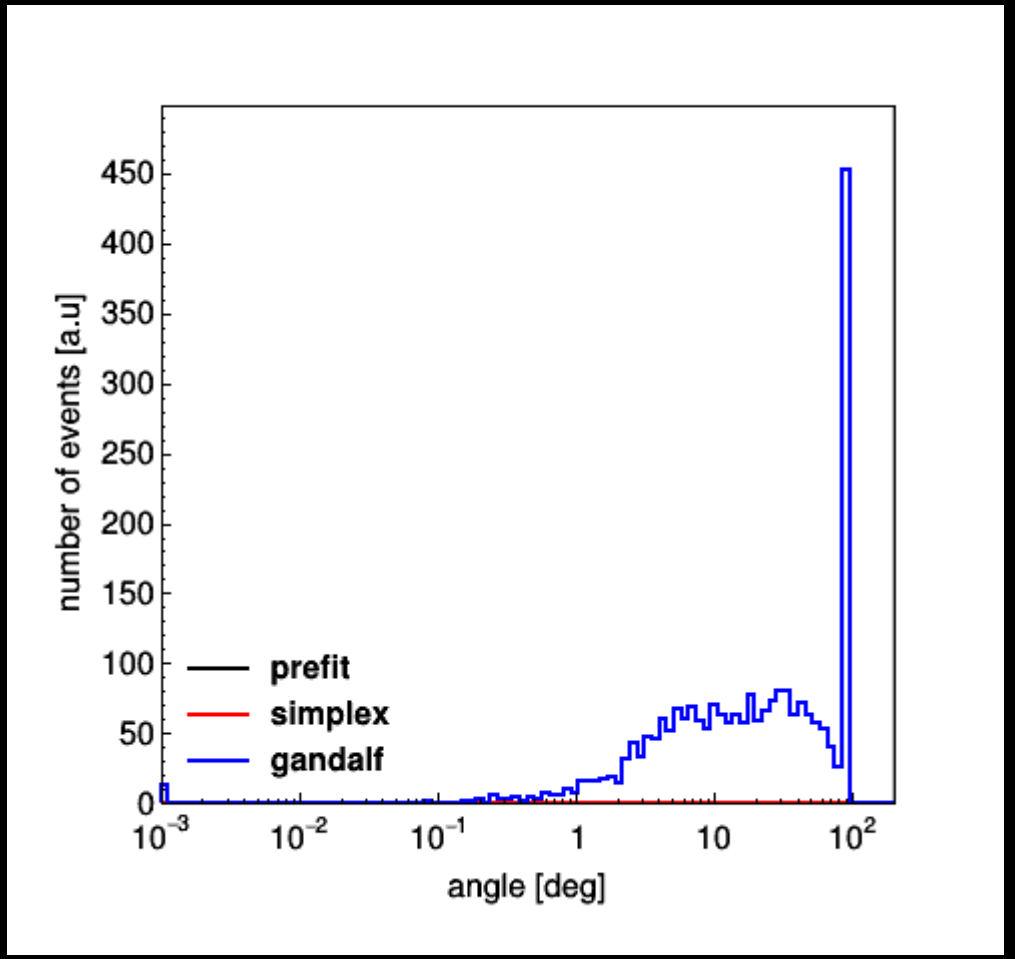
Extremely poor fit..



Angular difference

- Event origin coords: (0,0,0)
  Can coords: (-117.2, .., ..)
- Detector centre: (0, 0 , 117.16)
- Event coordinates in Gandalf & MC truth coords are too far apart?

Extremely poor fit..

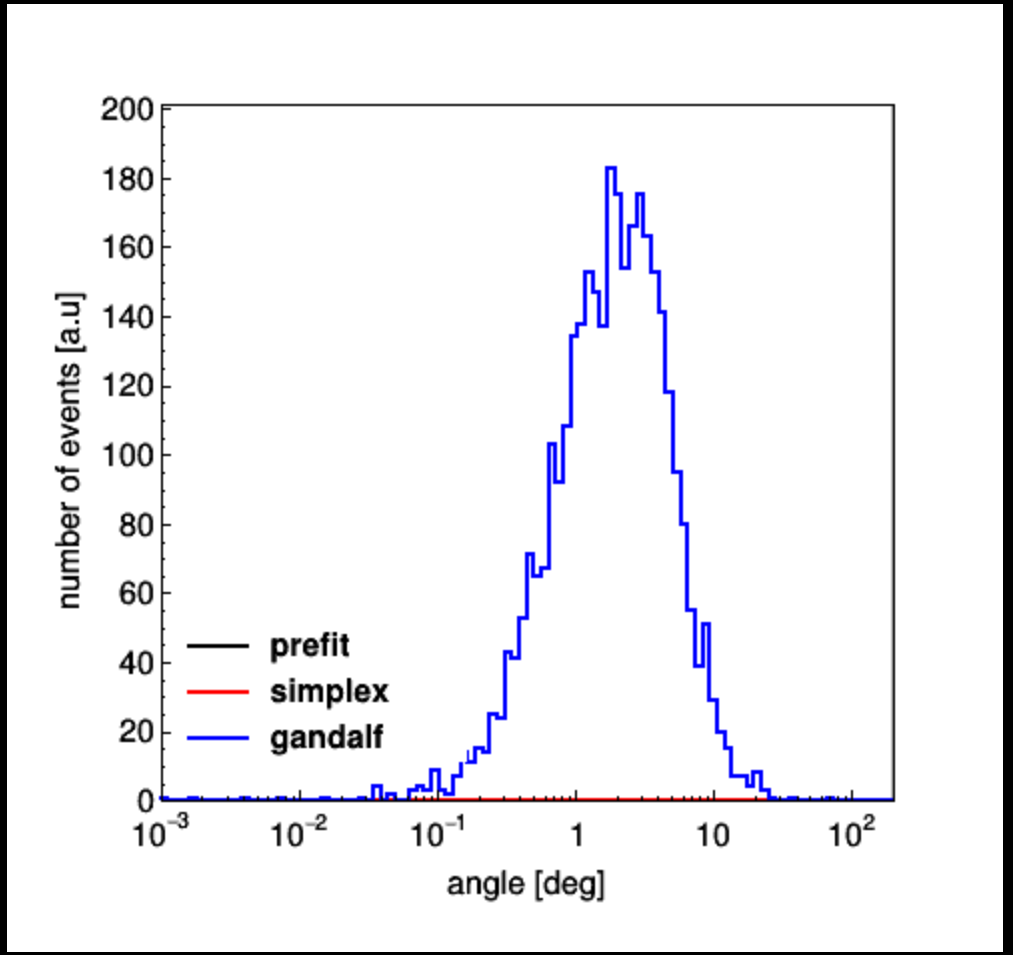


Angular difference

- Made the change by hand
- Maarten implementing coordinate change fix in Jpp.

- JMCEvt → JGandalf:

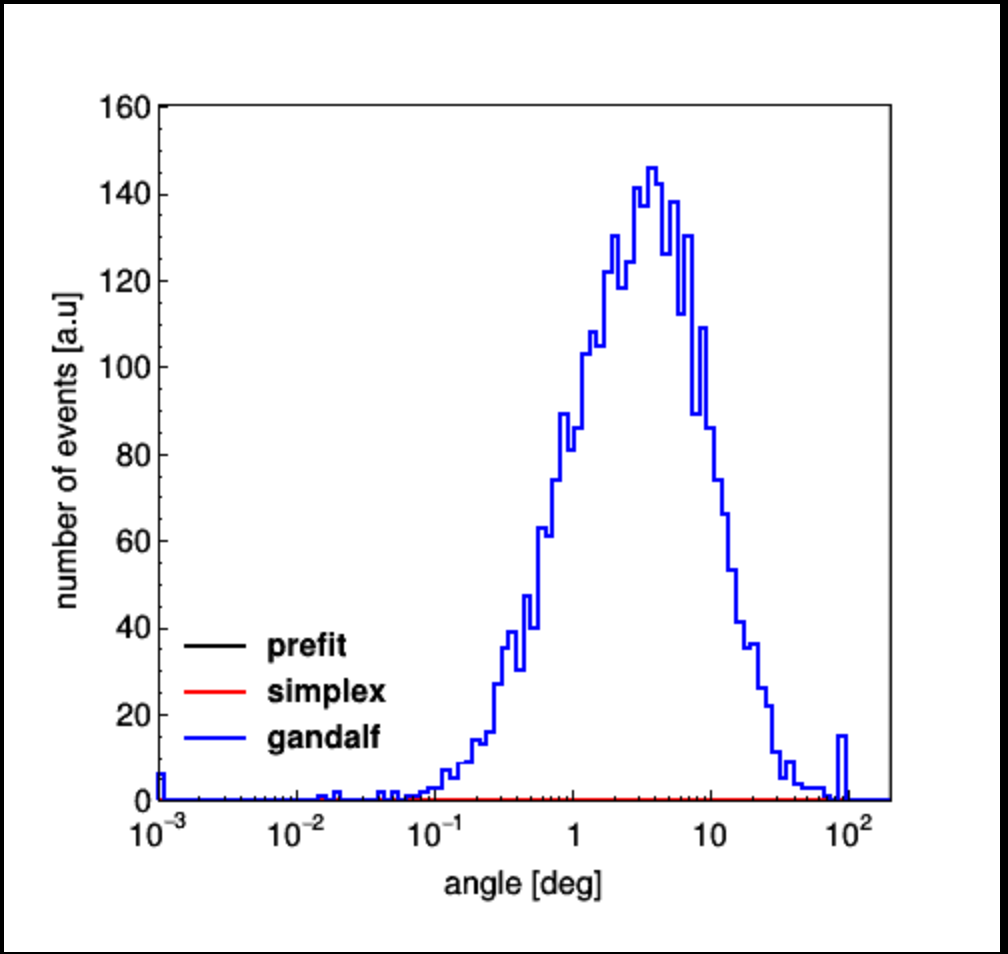
No events poorly reconstructed



Angular difference

- JMCEvt → JMuonGandalf (with current default parameters):

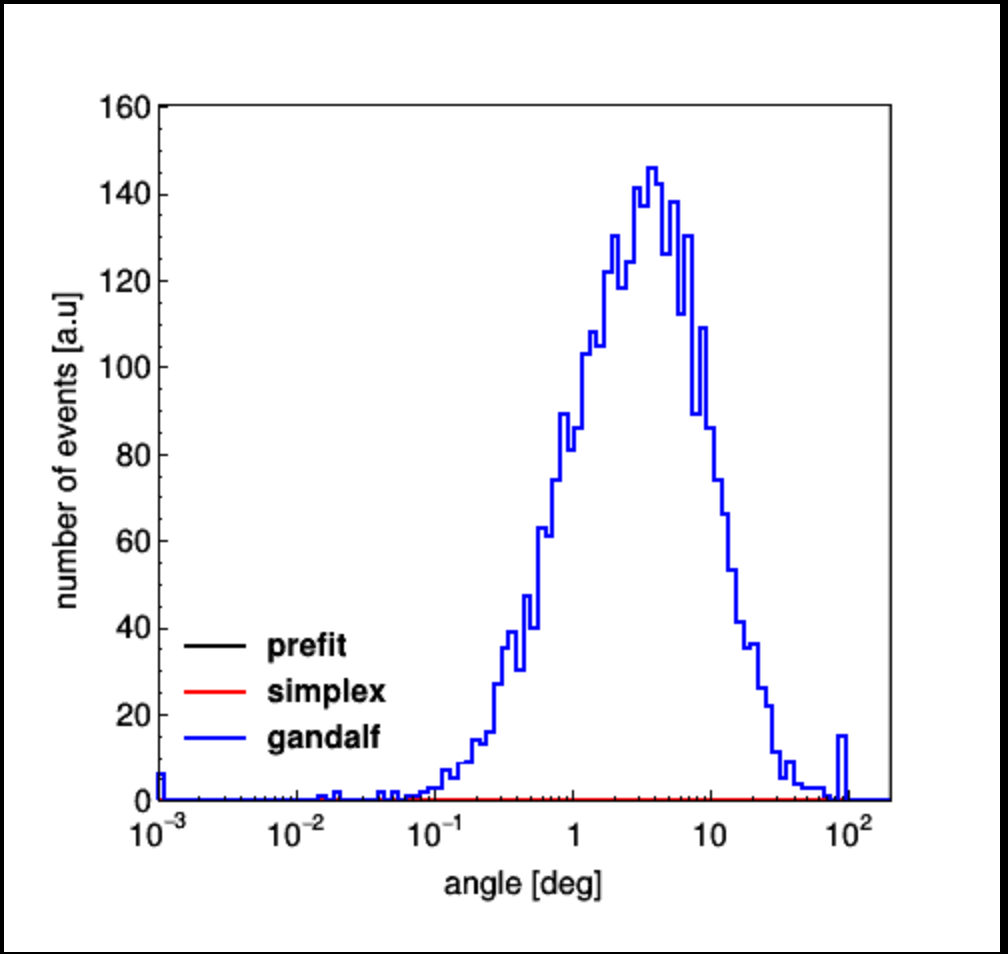
Some events poorly reconstructed



Angular difference

- JMCEvt → JMuonGandalf (with current default parameters):
- Roadwidth = 50 m

Some events poorly reconstructed

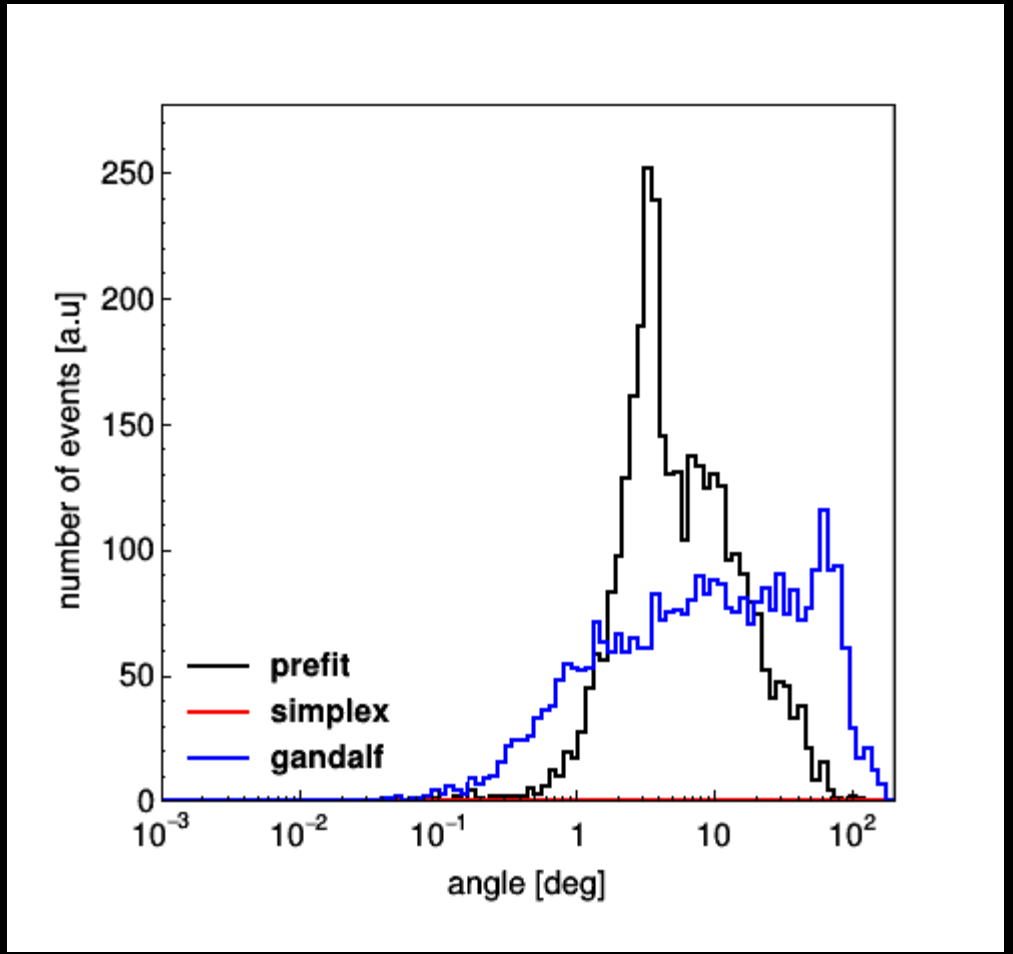


Angular difference

- By the way:

  JPrefit → JGandalf fits look like this.

- JPrefit, JGandalf show fit with highest q parameter.



Angular difference