Group Meeting – 28/03/19

- Files:

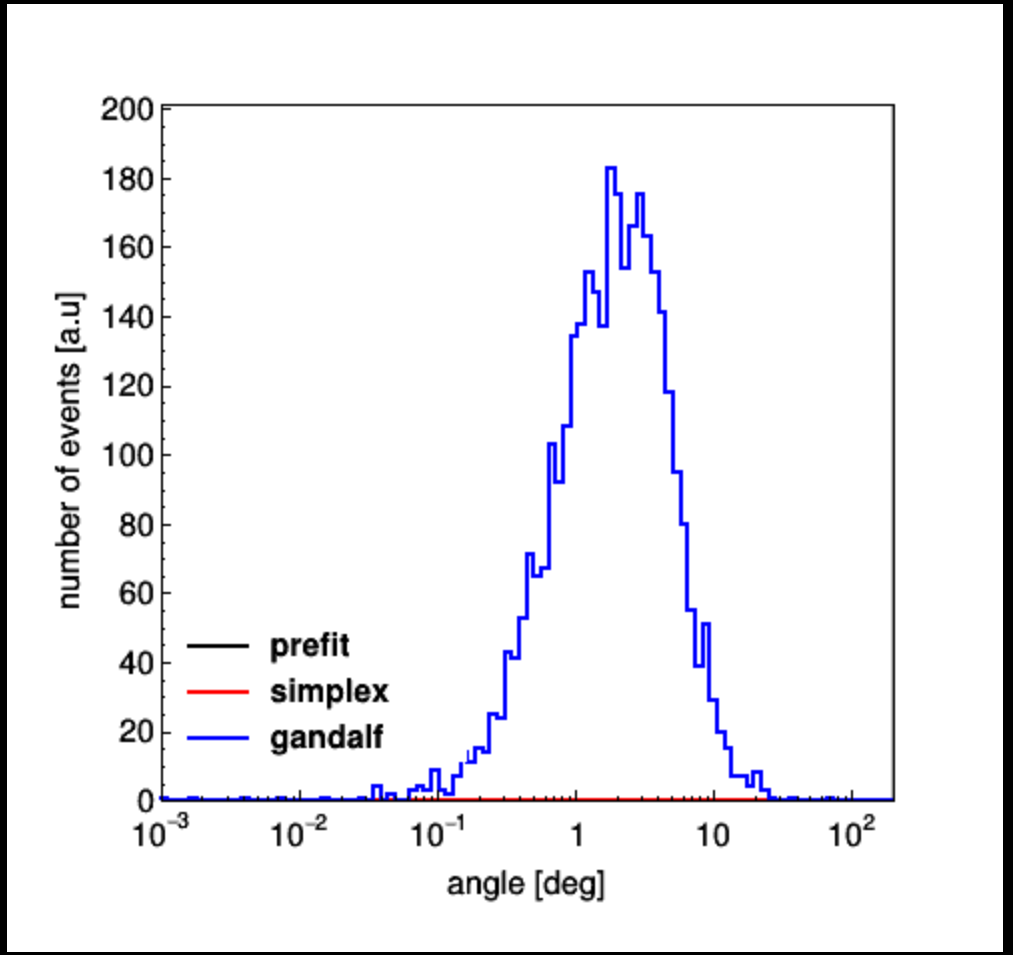
  JTE.KM3Sim.gseagen.muon-CC.3-100GeV-9.1E7-1bin-3.0gspec.ORCA115_9m_2016.*.root

  orca_115strings_av23min20mhorizontal_18OMs_alt9mvertical_v1.det

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

- JMCEvt → JGandalf:

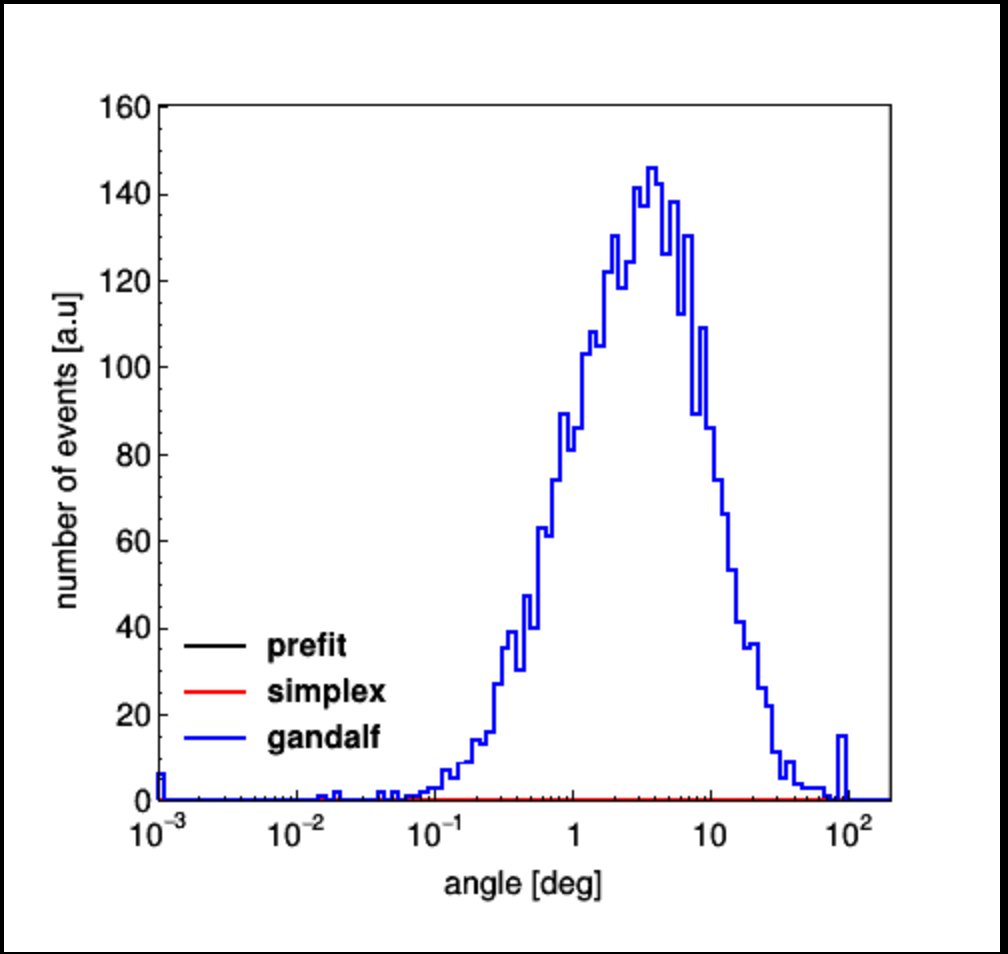
No events poorly reconstructed



Angular difference

- JMCEvt → JMuonGandalf (with current default parameters):
- Roadwidth = 50 m makes the difference here

Some events poorly reconstructed

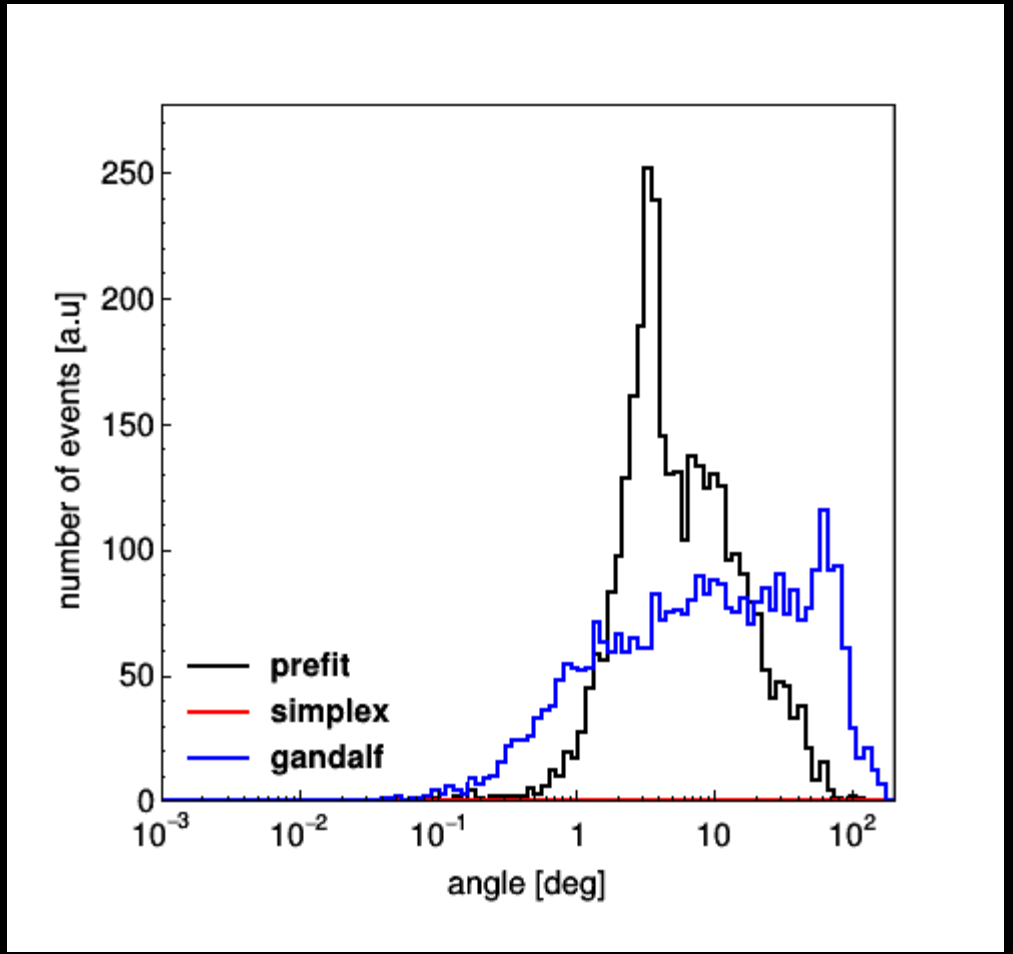


Angular difference

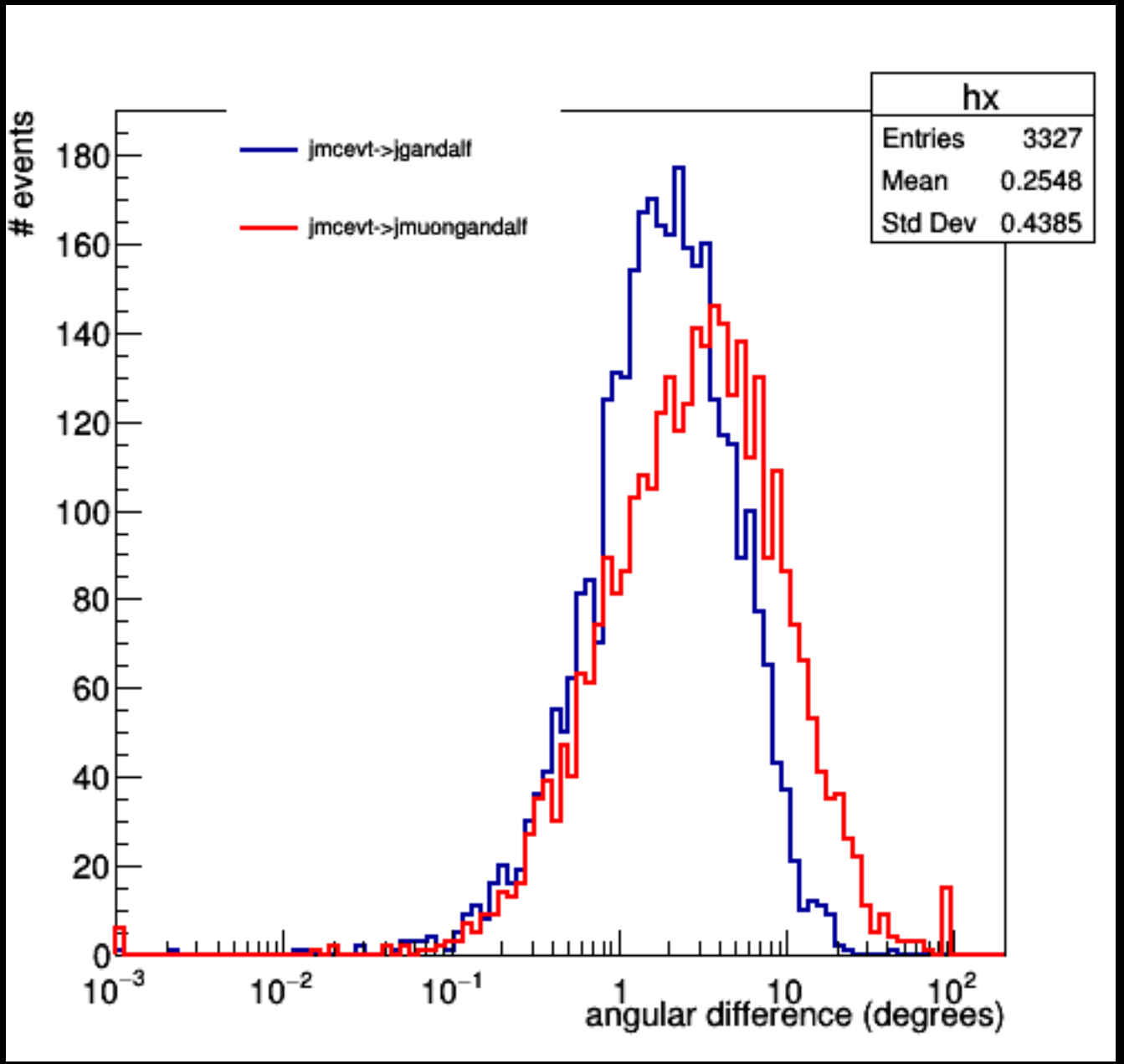
- By the way:

  JPrefit → JGandalf fits look like this.

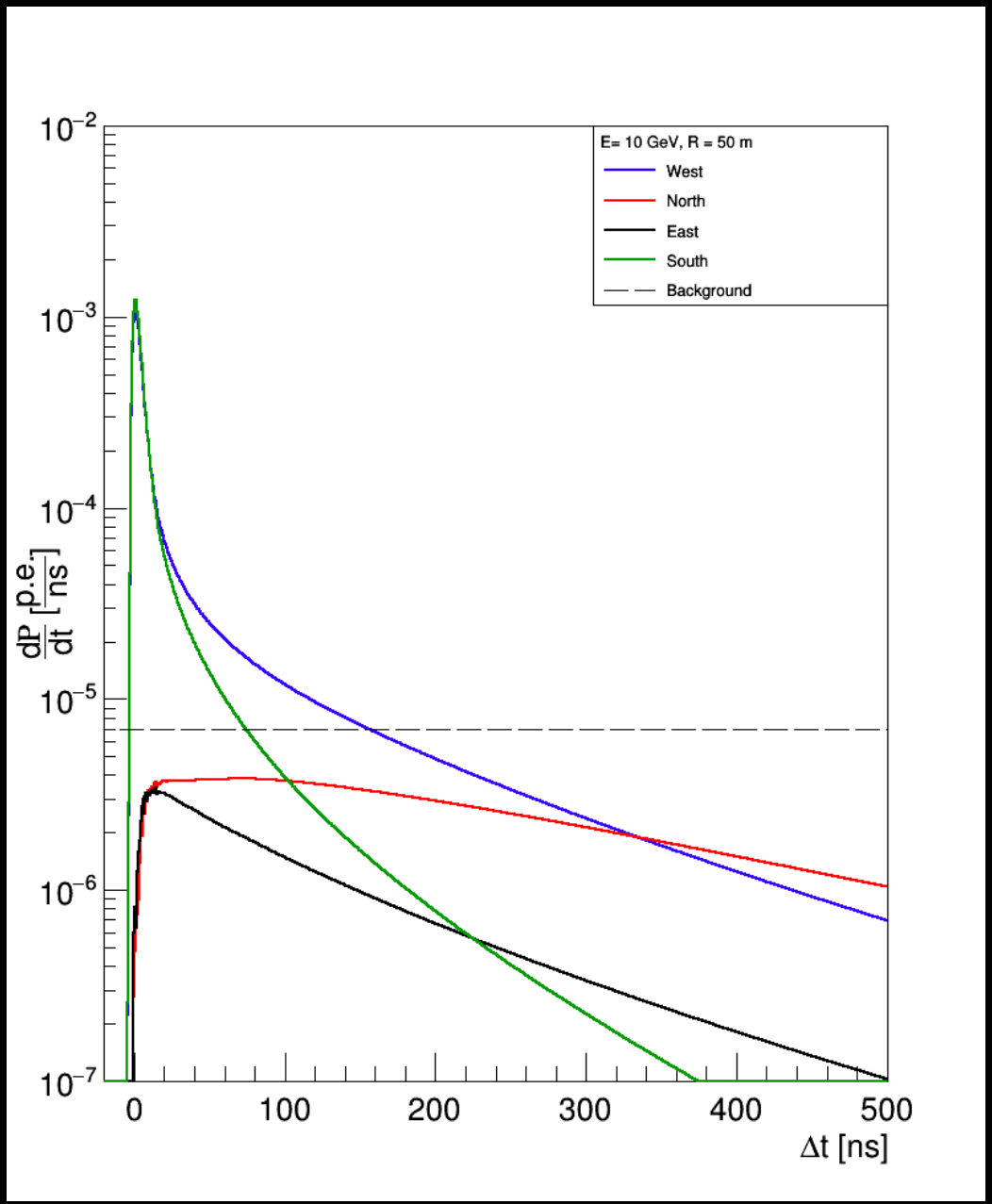
- JPrefit, JGandalf show fit with highest q parameter.



Angular difference

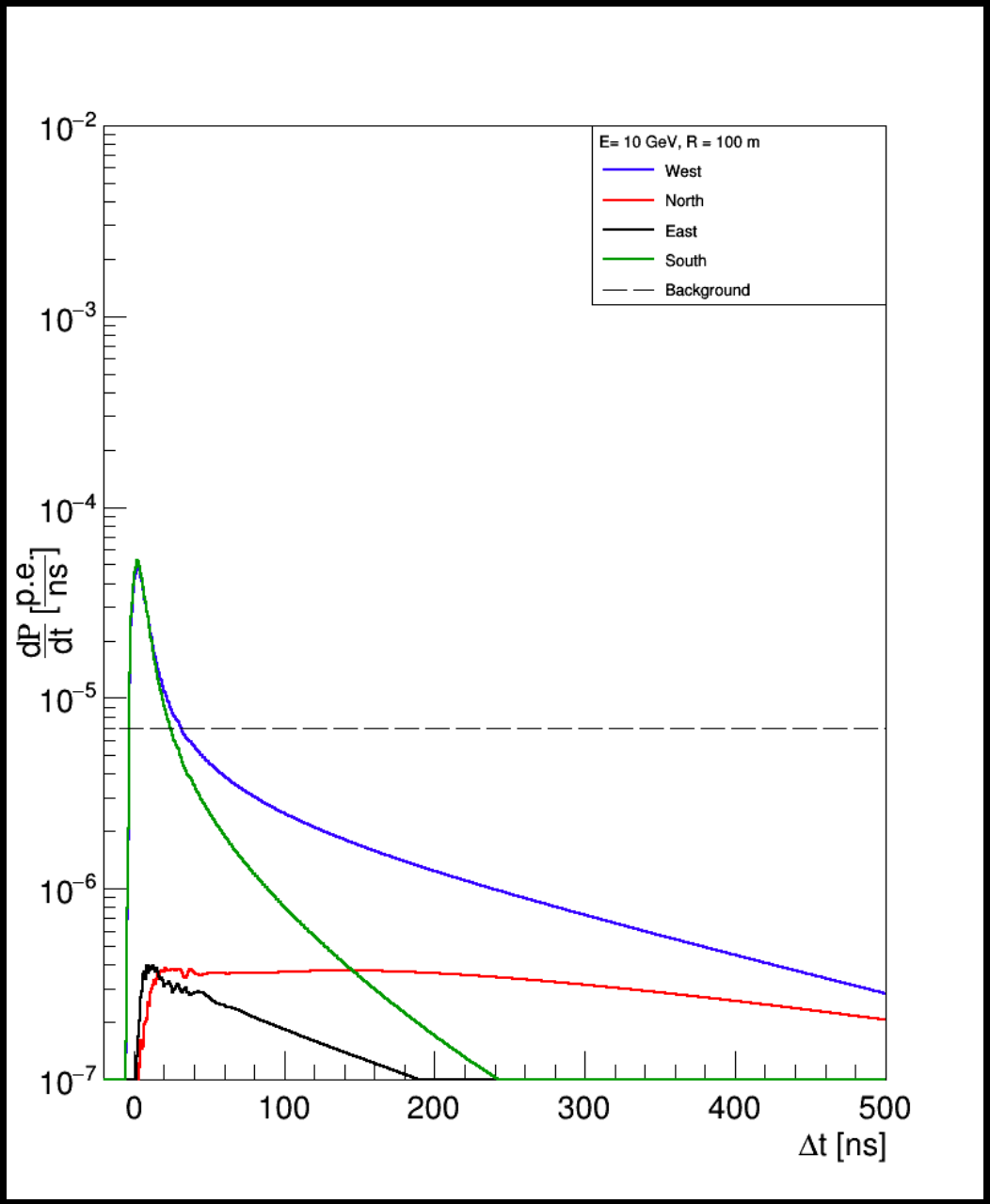

hx
Entries 3327
Mean 0.2548
Std Dev 0.4385
jmcevt->jgandalf
jmcevt->jmuongandalf
events
0
20
40
60
80
100
120
140
160
180
10^{-3}
10^{-2}
10^{-1}
1
10
10^{2}
angular difference (degrees)

Draw PDFs of muon (direct + scattered) light to check distance @ which light falls below optical background



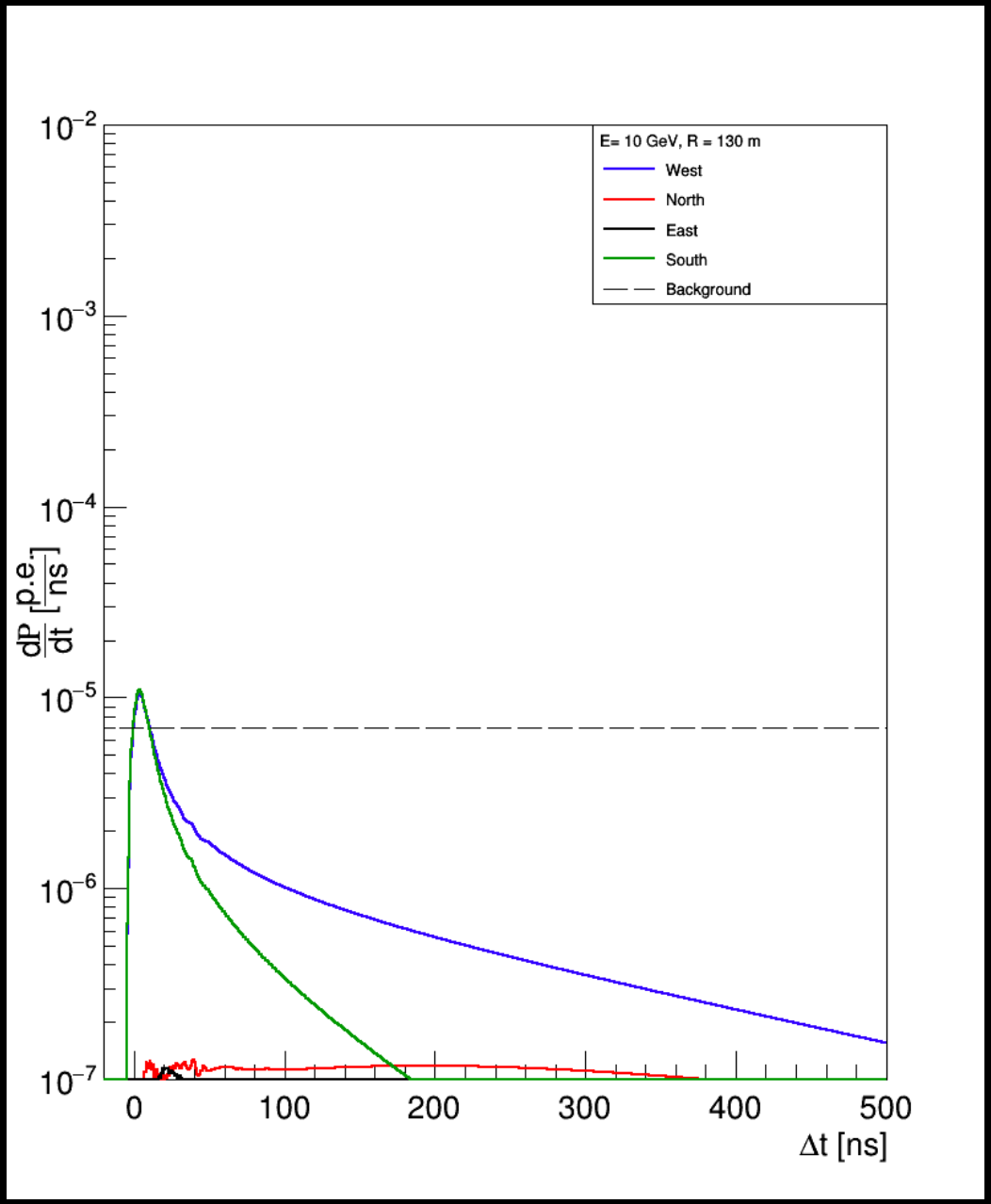
R = 50 m

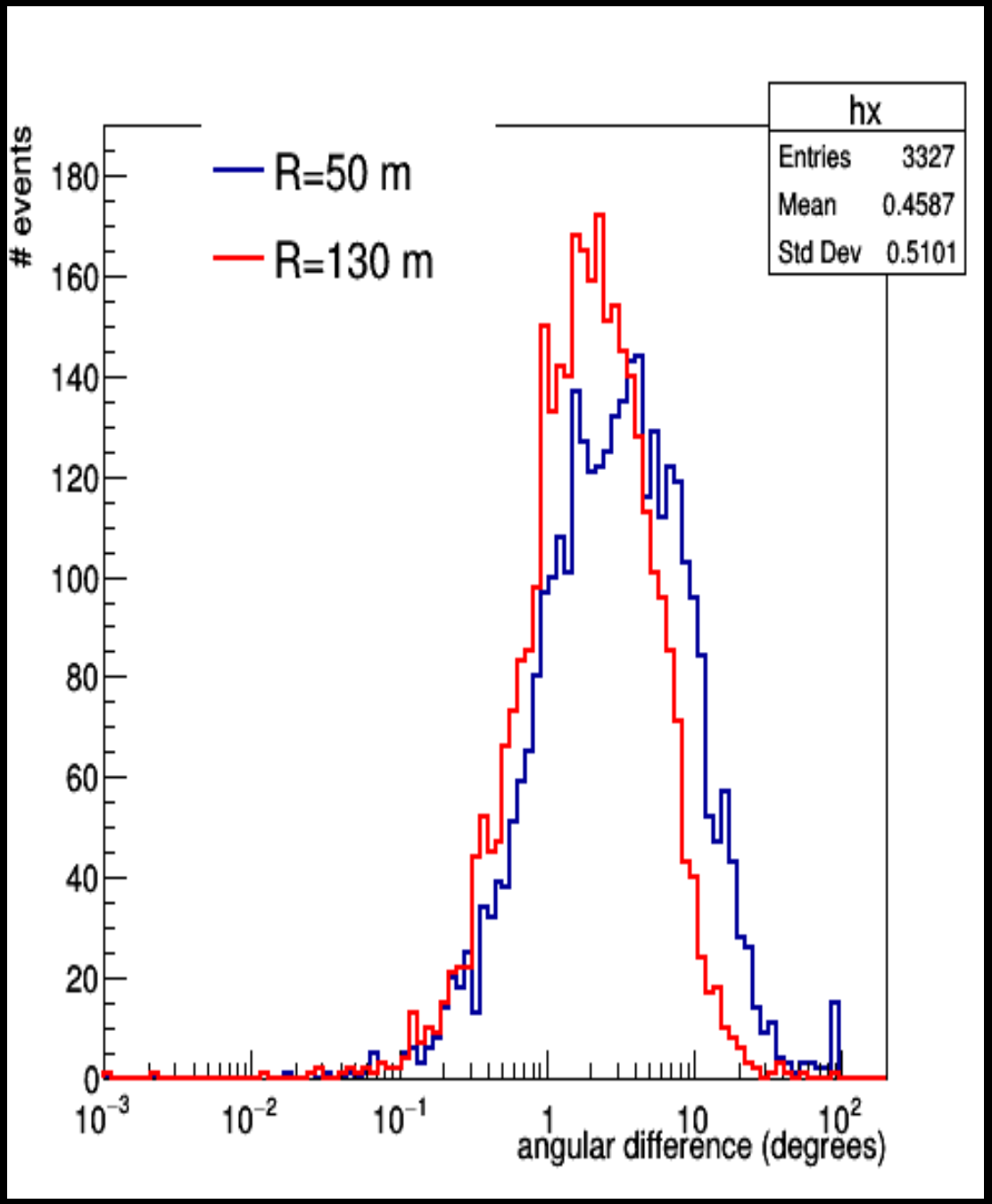
Draw PDFs of muon light to check distance @ which light falls below optical background



R = 100 m

Draw PDFs of muon light to check distance @ which light falls below optical background



R = 130 m

JMCEvt → JGandalf