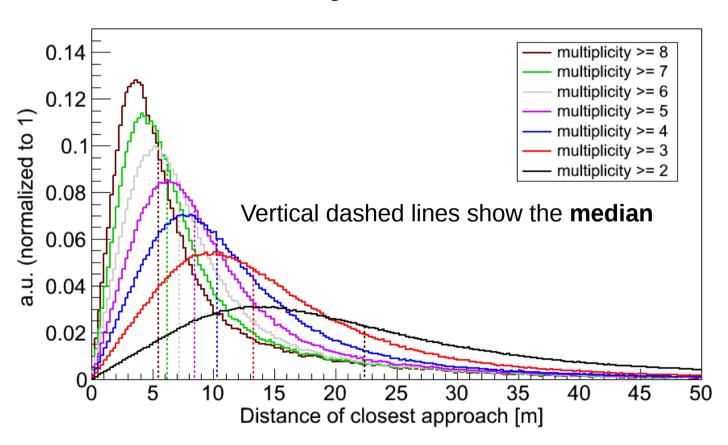
Muon rate depth dependence What are we seeing?

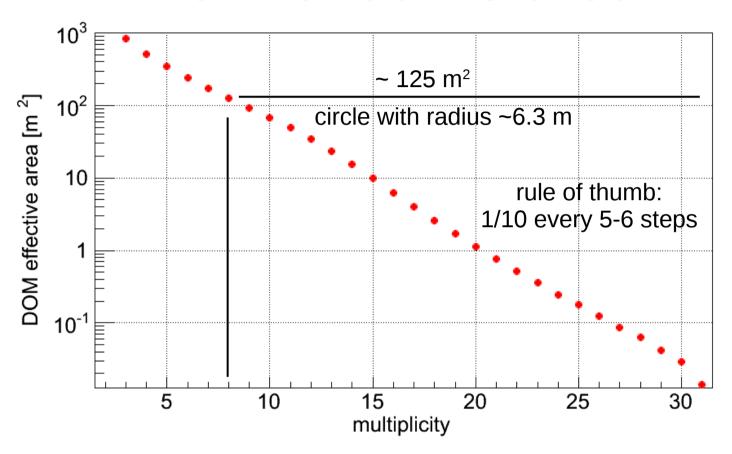
Karel Melis & Martijn Jongen 2/12/2016

Distance to DOM

Single muon events



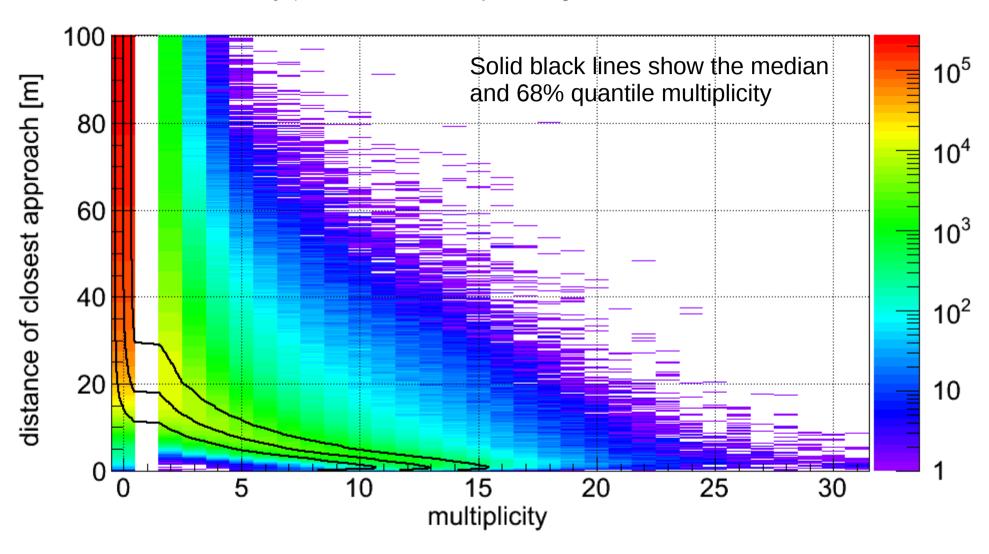
"DOM effective area"



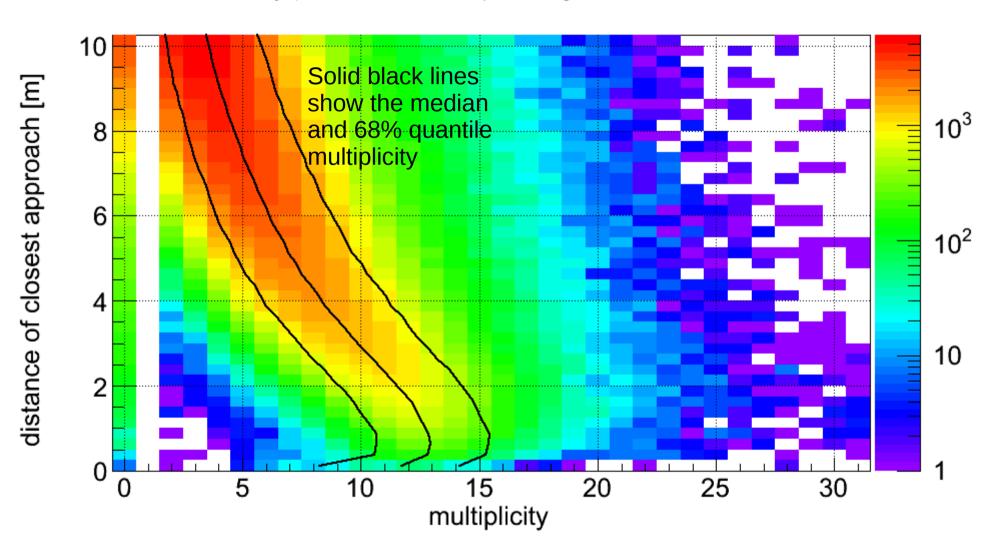
definition: Σ Nsel / Nall x Δ A

- using only MC events with a single muon
- all = muon tracks with expected E>0 at the DOM
- sel = tracks that cause an m-fold (or higher) coincidence on the DOM
- ΔA = area in one d.c.a. bin = $\pi \times (dca_{max}^2-dca_{min}^2)$

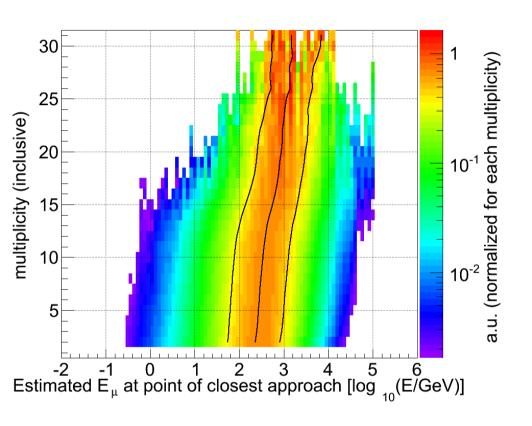
One entry per active DOM per single-muon MC event

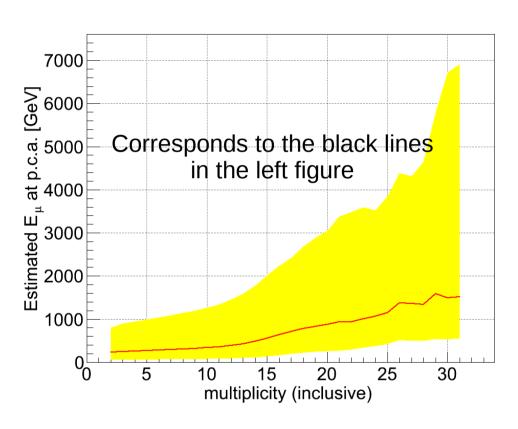


One entry per active DOM per single-muon MC event



Muon energy





- Low multiplicities: ~200-400 GeV
- Very high multiplicities: mostly >1,000 GeV

Time over threshold

