







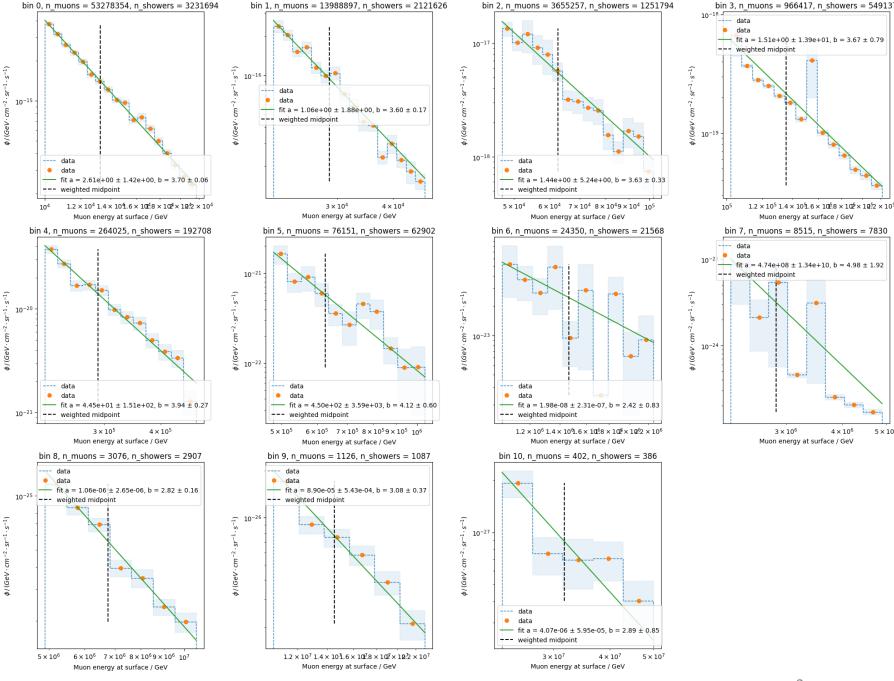
Muon flux at surface – MCEq vs. CORSIKA

Pascal Gutjahr





Fit spectral index per bin



bin 3, n muons = 966417, n showers = 549137

 4×10^{6}

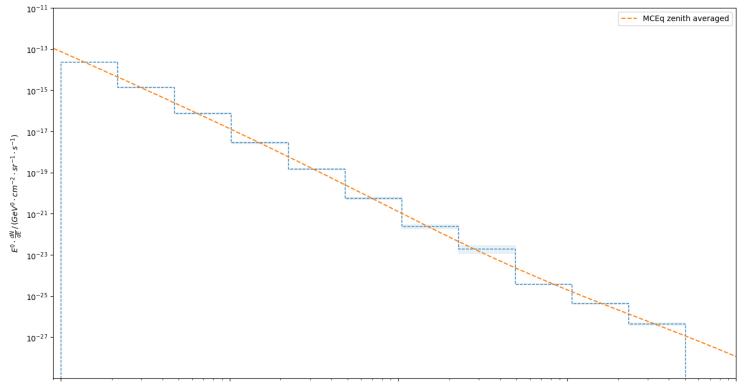
pascal.gutjahr@tu-dortmund.de

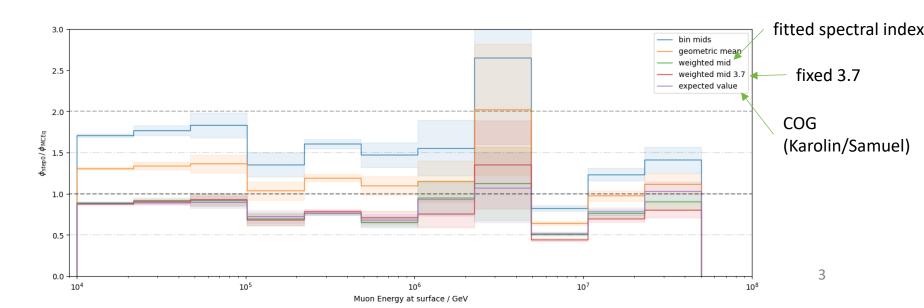






Check different bin "mids"

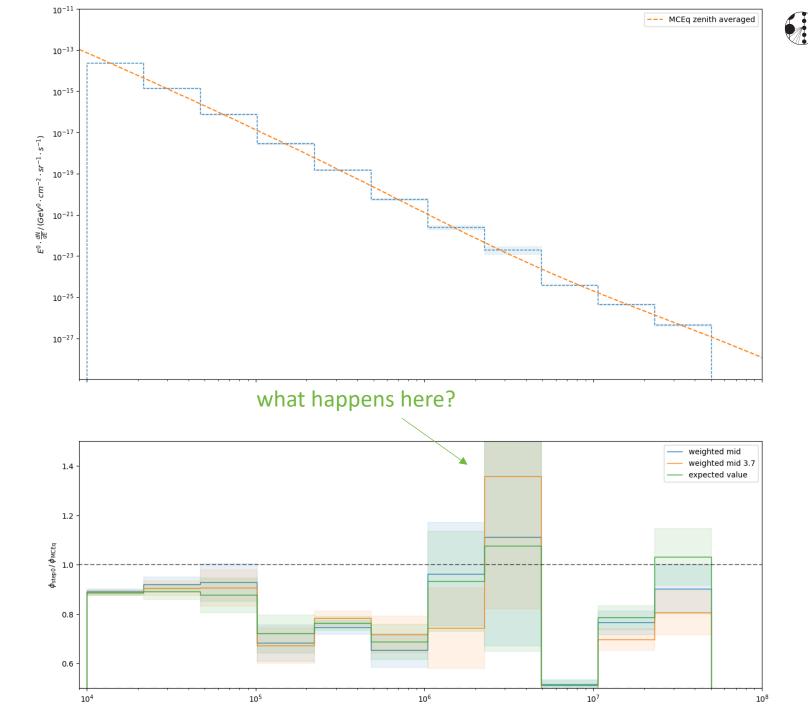








Zoom in



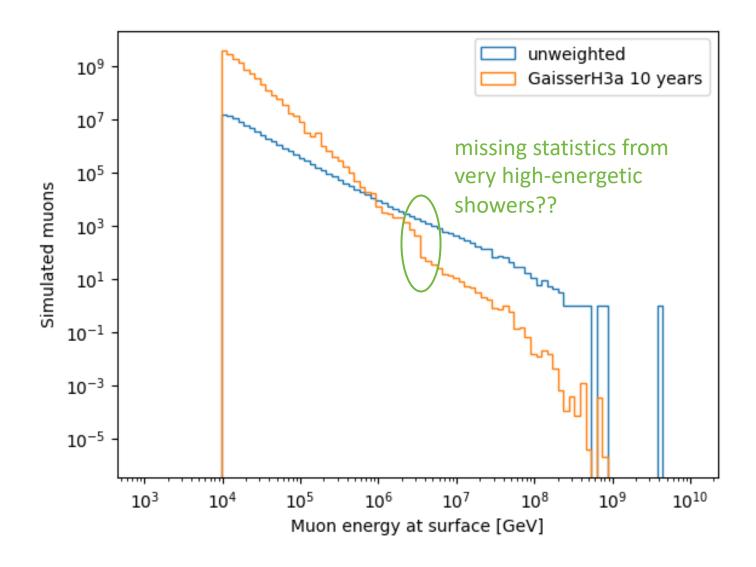
Muon Energy at surface / GeV







Muons at surface (check statistics)

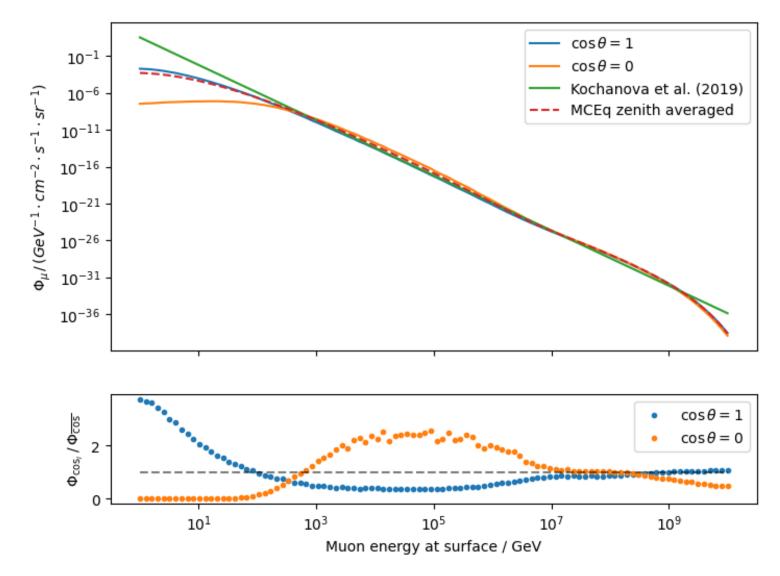








MCEq muon flux – zenith averaged



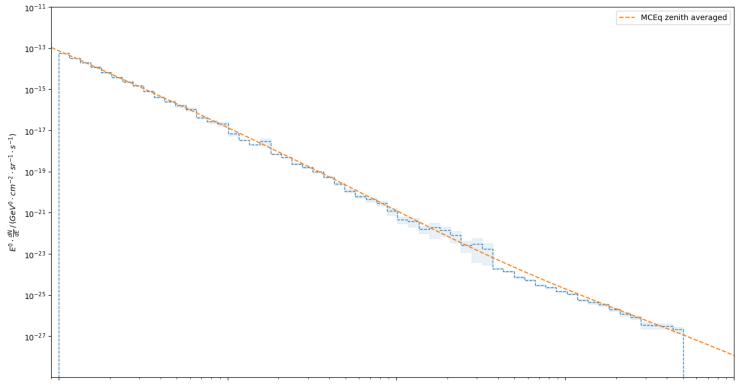
pascal.gutjahr@tu-dortmund.de 6

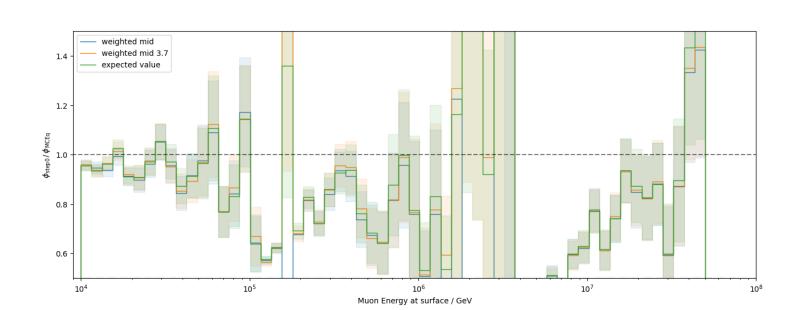




ICECUBE NEUTRING OBSERVATORY

Check very small binning → less impact of bin "mids"



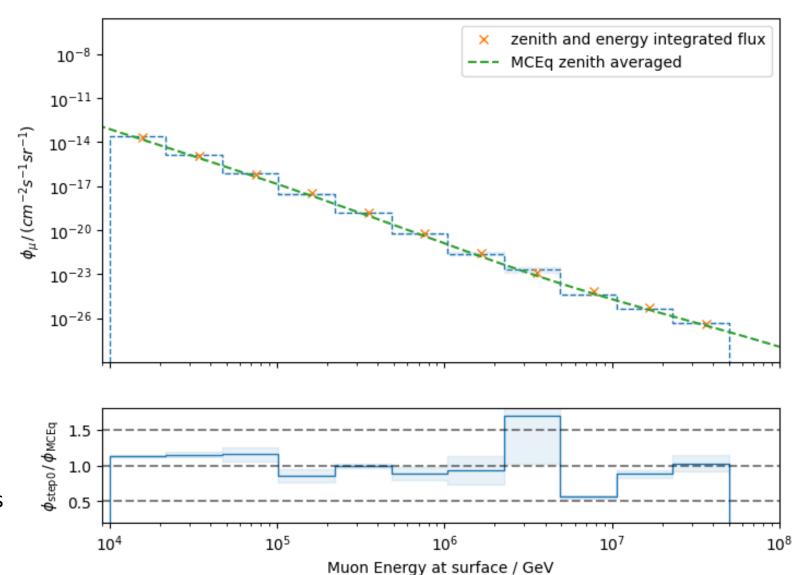








Integrate MCEq flux over energy \rightarrow bin mids have no impact anymore



- energy integration is preliminary

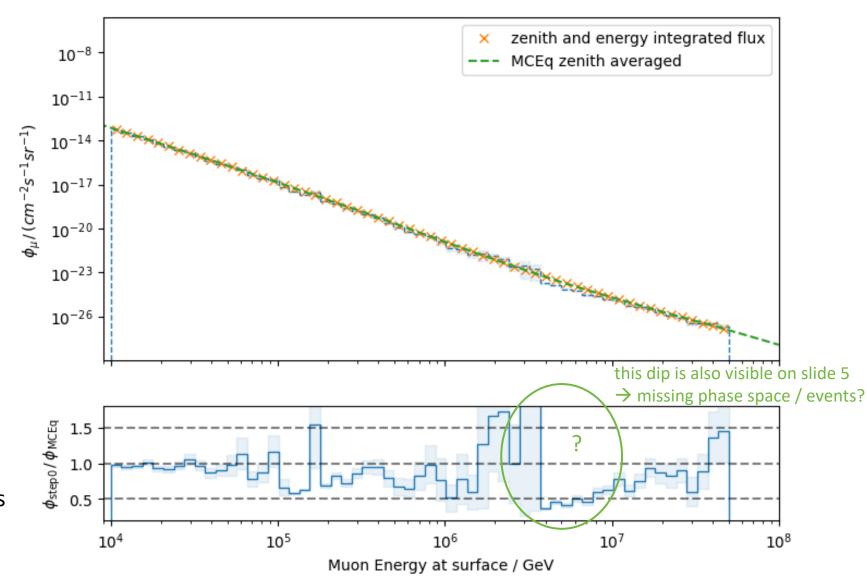
pascal.gutjahr@tu-dortmund.ge 8







Integrate MCEq flux over energy \rightarrow smaller bins



- energy integration is preliminary

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