Unfolding of 10% from 2011 - 2020: jun-aug compared to SIBYLL2.3c  $10^{-3}$  $E^2 d\phi/dE$ [GeV<sup>1</sup> cm<sup>-2</sup>s<sup>-1</sup>  $10^{-4}$ Honda2006 MCEq H3a  $10^{-5}$ MCEq H4a MCEq GST (4-gen) MCEq Poly-Gonato unfolded IceCube Prelimin ratio to yearly average<sub>L</sub> o t  $10^{2}$  $10^{3}$  $10^{4}$ E/GeV