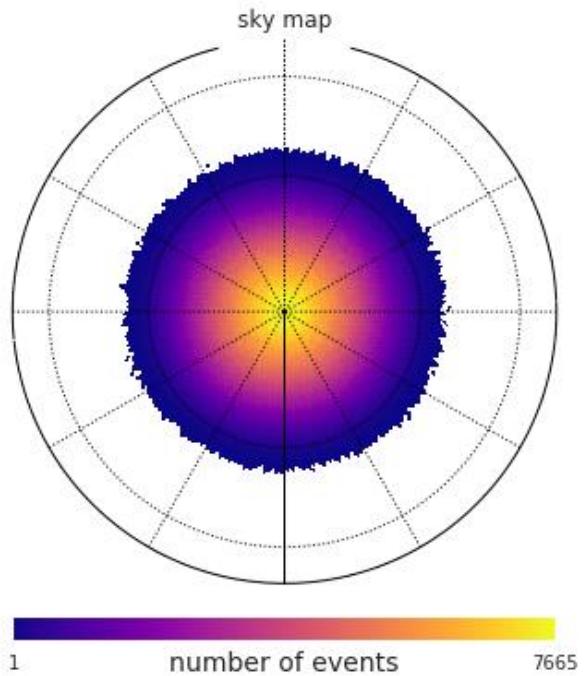


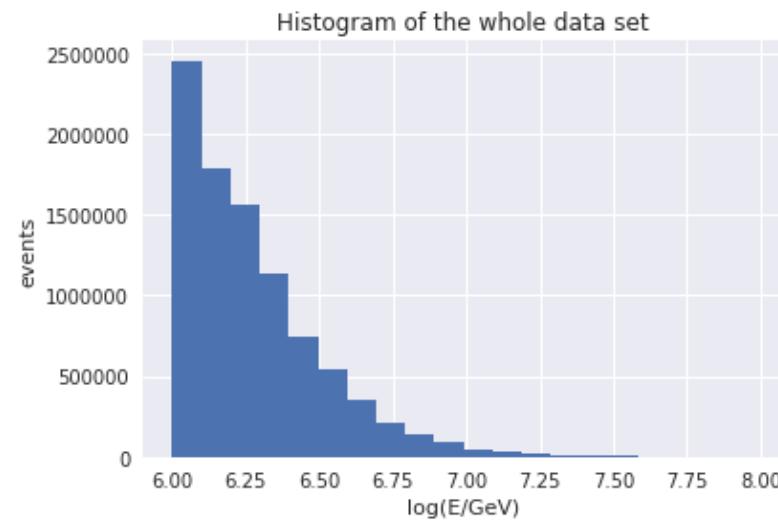
Cosmic Ray Anisotropy at PeV scale

IceCube Bootcamp 2018
Vinzenz Wiedemann

IceTop Data



- 914916 events
- Energie range: 1 - 95 PeV
- Declination : -52 - 90 deg



Computing the χ^2 -distribution

- Model developed by Abbasi et al.
 - <https://arxiv.org/abs/1802.05003>
 - Create a disc for every map point and compare the event distribution inside to the rest of the sky
- $\chi^2 = \sum \frac{(events_{in} - events_{out})^2}{events_{out}}$
 - $events_{out}$ are scaled to $events_{in}$
- Compute p values and σ from that

