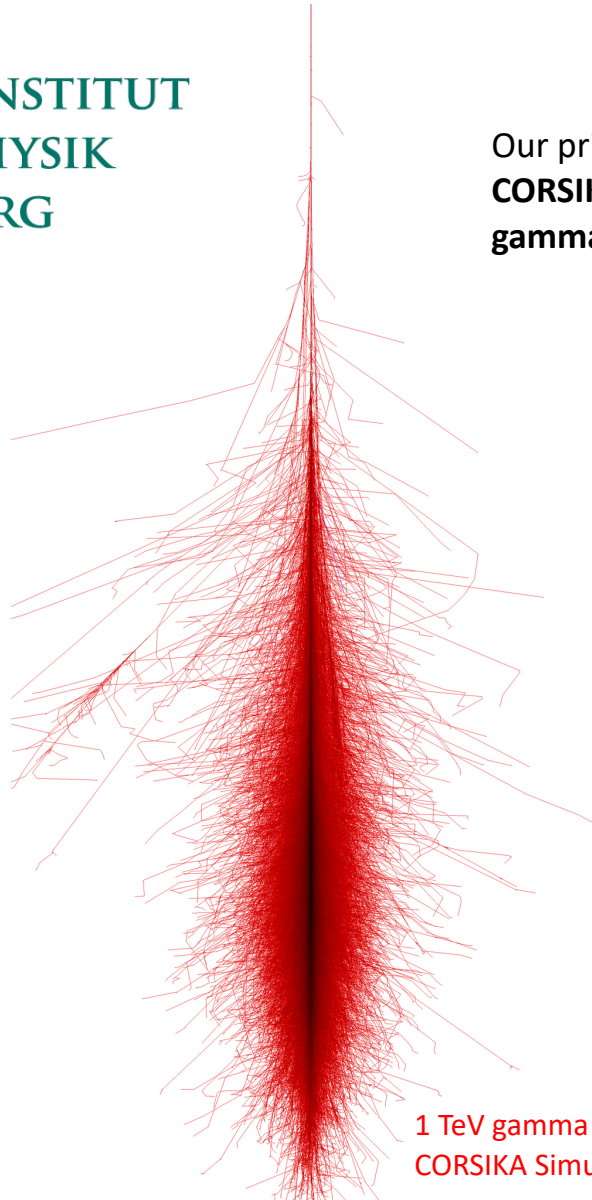




Our primary interest:
**CORSIKA as a tool for ground-based
gamma-ray astronomy**

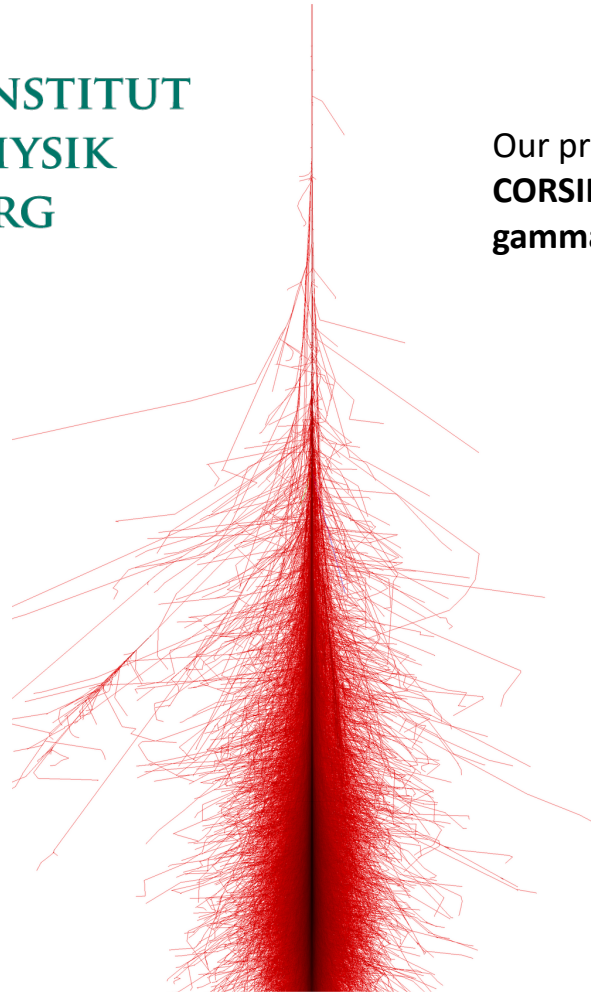


1 TeV gamma
CORSIKA Simulation



See www.swgo.org

Our primary interest:
CORSIKA as a tool for ground-based
gamma-ray astronomy



“The Legacy of Michael Hillas in Air Shower Simulations”

https://www.mpi-hd.mpg.de/hillas2018/slides/Hillas2018_o4_Knapp.pdf

CORSIKA in Heidelberg

Cherenkov Photons
from Gamma-ray
Shower
(Konrad Bernlöhner)

- Development of CORSIKA as a tool for ground-based gamma-ray astronomy, in particular in the context of CTA and SWGO
 - Cherenkov (and Fluorescence) light production and propagation (Bernlöhner)
 - Shower particles at mountain altitudes
- Hadronic interactions / event generators
 - Understanding (low energy) differences
 - Talk this workshop Álvaro Pastor Gutiérrez
 - also Harm Schoorlemmer, and formerly Dan Parsons
 - Consistency with existing and future accelerator data
 - Michael Schmelling and formerly Hans Deminski, LHCb
 - On the critical path for measurements of the cosmic ray electrons and diffuse gamma-ray emission at TeV energies



+In Div. Lindner: **Oliver Fischer**, BSM Physics using CR showers



CORSIKA in Heidelberg

MPIK

- Hoping to welcome you to Heidelberg for the CORSIKA Workshop of Spring/Summer 2021!



Heidelberg

