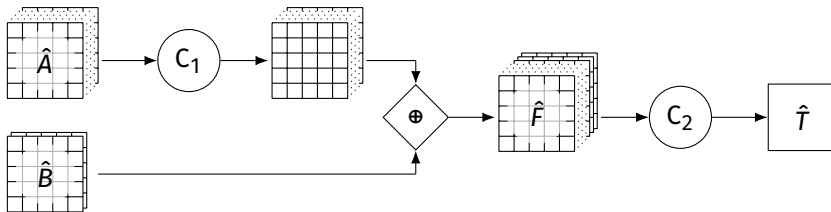


Boosting the performance of a neural network using symmetry properties for the prediction of the shower maximum

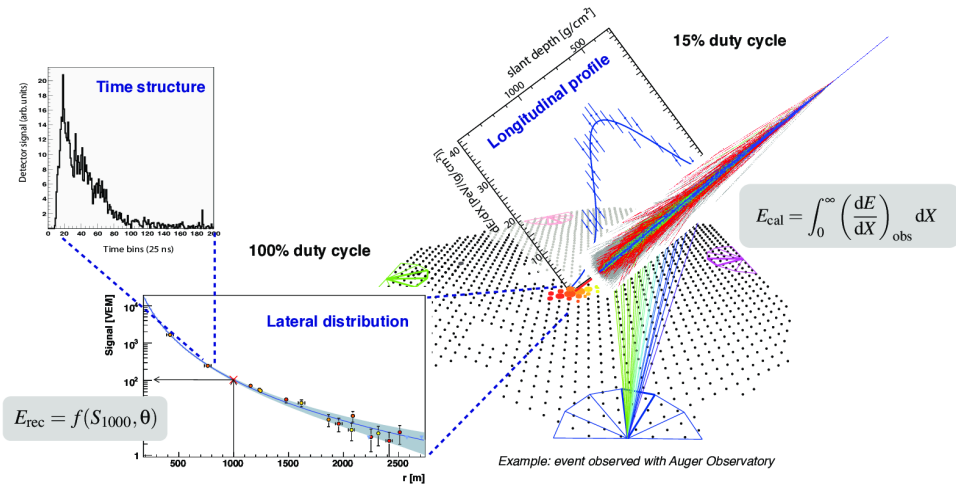
using the water-Cherenkov Detectors of the Pierre Auger Observatory as an example

S. Hahn, M. Roth, D. Schmidt, D. Veberič

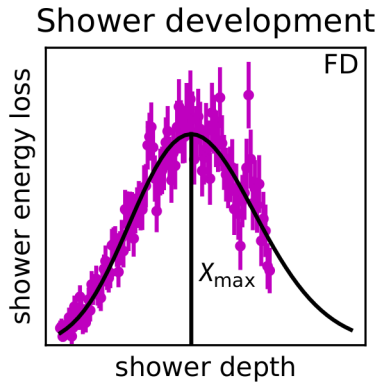
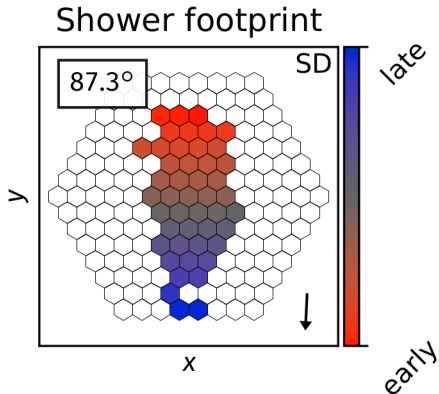
KIT - IAP



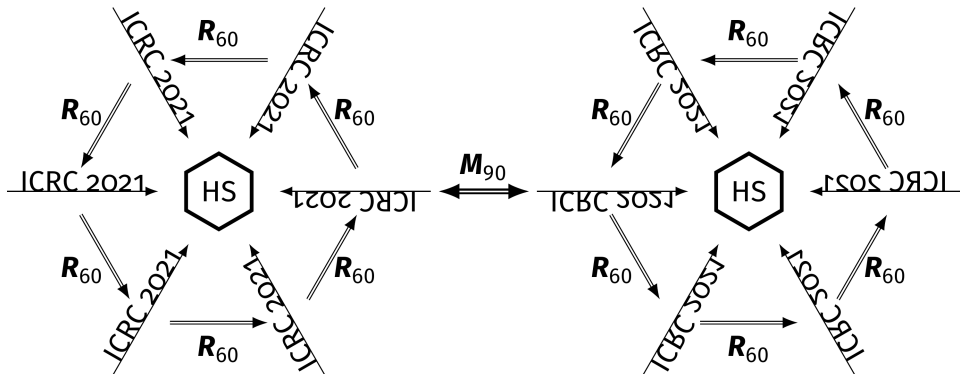
Hybrid detection of UHECRs



taken from one of Ralph Engel's talks

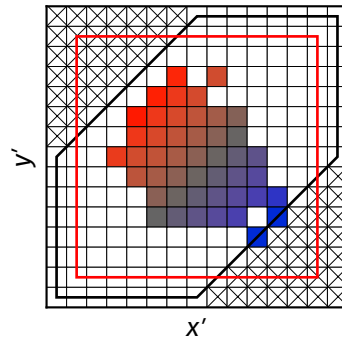
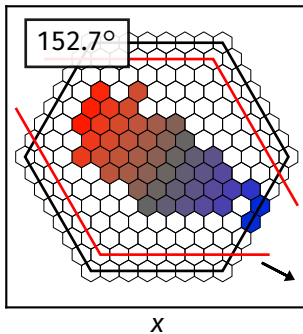
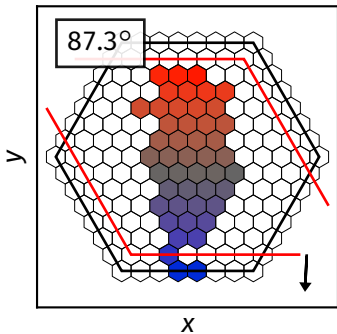


SD symmetries

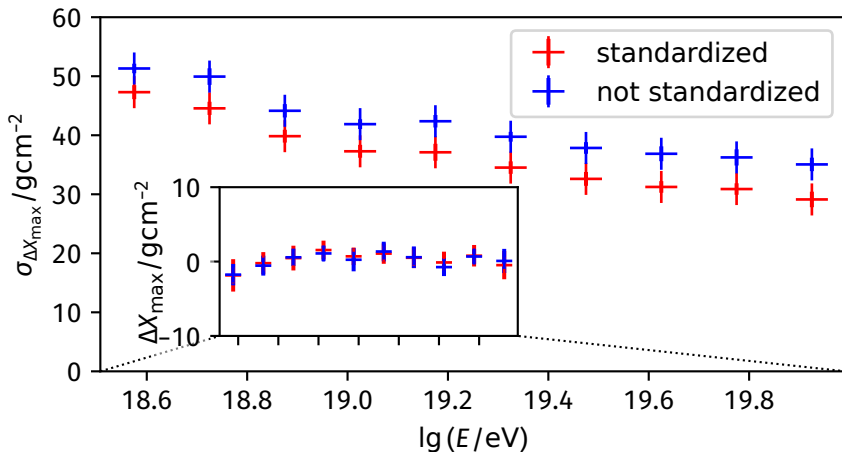


HS: station nearest to the shower core

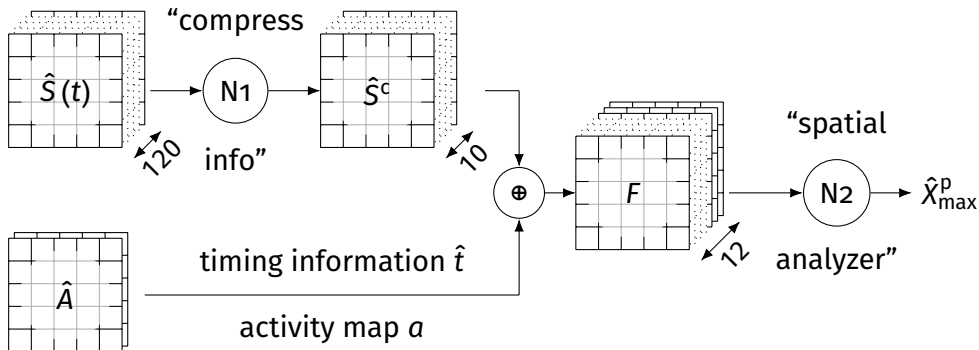
Results - memory efficiency



Results - pre. results (p only)



Base architecture



Additional info

