Boosting the Performance of the 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

Steffen Hahn, Markus Roth, David Schmidt, and Darko Veberič Karlsruhe Institute of Technology (KIT), Institute for Astroparticle Physics (IAP)

What is this contribution about?	Why is this relevant/interesting?
The contribution presents a way of exploiting planar detector symmetries to reduce the phase space of problems and to work memory efficient.	This method is an easy way of boosting complex analysis approaches without the need of modifying them to account for these underlying symmetries.
What has been done?	What is the result?