HAWC High Energy Upgrade with a Sparse Array

γ/p

Particle shower

True shower

Wrongly reconstructed shower

Problem?

Low energy shower

High energy shower > 10 TeV

Solution...

Using the outriggers, high energy showers can be well confined.

This will improve the shower reconstruction.

- tank from the main array
- outrigger tank
- zone delimitation
- node

HAWC

Outriggers

northing [m]

easting [m]

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