## Standardized Formats for Gamma-Ray Analysis Applied to HAWC Observatory Data

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The "gamma-astro-data-format" (GADF) is an open-source and communitydeveloped effort to define a common standard for  $\gamma$ -ray data. It is used by open-source packages like *Gammapy*, which allows data from different  $\gamma$ ray instruments to be analyzed within the same framework.

These efforts have mostly been focused on imaging atmospheric Cherenkov telescope arrays. Despite this, we show that data from ground-based, wide-field observatories, and in this case, the HAWC observatory can be made compatible with the standard.

We produce GDAF-compliant HAWC instrument response functions and event lists and use them to carry out a validation analysis with *Gammapy*. We reproduce the Crab nebula spectrum published by the HAWC Collaboration and find excellent agreement.

Having a common data format and analysis tools facilitates joint analysis between different experiments and effective data sharing. This synergy between experiments is particularly relevant given the complimentary nature of pointing and wide-field instruments. This will be specially important for future observatories like the Southern Wide-field Gamma-ray Observatory.