

# Phases to do all sky maps

1. Make a detector response file
2. G/H separation
3. Make the maps
4. Make the significance maps

# Make a detector response file

A. To add the weight at certain declination

I use the MC take 4 that made John:

```
/data/scratch/userspace/pretz/daqsim-reconstruction/output/  
daqsim-baseline-take4
```

Now, I've used all particles (8 hadrons and gammas)

Script used is sweets-reweight (default parameters, only declination is specified)

B. Compute the detector response

Script used is liff-MakeDetectorResponse (default parameters, only the list of declinations is specified)

# G/H separation

Script used is aerie-apps-scrappy-cut-dataset

# Make the maps

Script used is aerie-apps-make-hawc-maps

Parameters:

- \* zenith alignment XML: [\\$CONFIG\\_HAWC"/reconstruction/crab-align/zenith-SPofficial.xml](#)
- \* NSide of Map: 1024
- \* Min Integration Duration: 0
- \* use J2000 coordinates for maps

# Make the significance maps

aerie-apps-FastTopHatSkyMap

Parameter:

\* INDEX="2.63"

\* bin

\* Detector response file

# The Crab of fbin 1 ebin 2.5-2.75

