

Weekly Report

2/1/2019

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Energy χ^2 values using modified objective function (event 305)

Original data: **tot = 48.88** pos = 35.71 **eng = 10.80** vert = 2.38

Cleaned data: **tot = 18.04** pos = 5.34 **eng = 12.31** vert = 0.39

The index problem

Steps leading up to proton fitting: image generation -> event classification -> plotting predicted proton events (and see if they are indeed proton)

The output file (prediction) from the CNN has the correct indices with respect to the image file

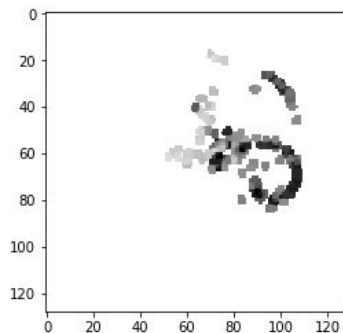
However, the image file does not have the same indices as the input file (run_0130.h5)

For example

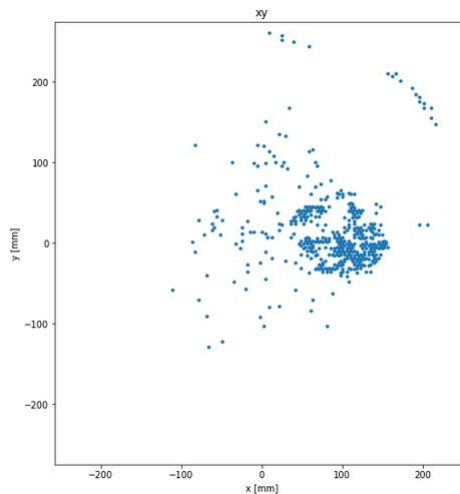
Event index 4

Image looks like this:

```
plt.imshow(data[4])  
<matplotlib.image.AxesImage at 0x7f030bde4b
```



While the actual event is:



Generating events for a series of images

The fifth one corresponds to index 4, which is what we should expect..

Still troubleshooting!

