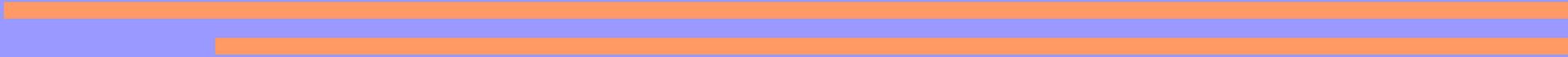


CKOV MC Update

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Ckov Geometry Class

GCKovConst

- Defines size of 3 mirror types
- Defines borders of mirror array in plane coordinates

GCKovGeo implements the following functions

- Convert from CAVE to Ckov coordinates
 - Convert from CAVE to upper plane
 - Convert from CAVE to lower plane
 - Determine if point is contained in upper(lower) plane
 - Take point defined in CAVE and determine which mirror (if any) was hit
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Digitization Status

CkovDigitizer

- Get list of Ckov hits
- Filter out non-photons
- Generate adc pedestals randomly from Gaussian

ADC

- Predict number of photoelectrons based on number of photons and pmt gain
- Convert to charge while taking into account electronics gain
- Convert to adc value

TDC

- Use particle time of flight from Geant
 - Add in delay from mirror to pmt w/ timing resolution
 - Convert to tdc value
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Still To Do

Need to get parameters correct

- Electronics gain parameters mainly borrowd from TPC digitizer
- Timing parameters mainly borrowed from TOF
- PMT gain is a guess
- ADC and TDC conversion factors need to be checked

Plug digitization into monte carlo

