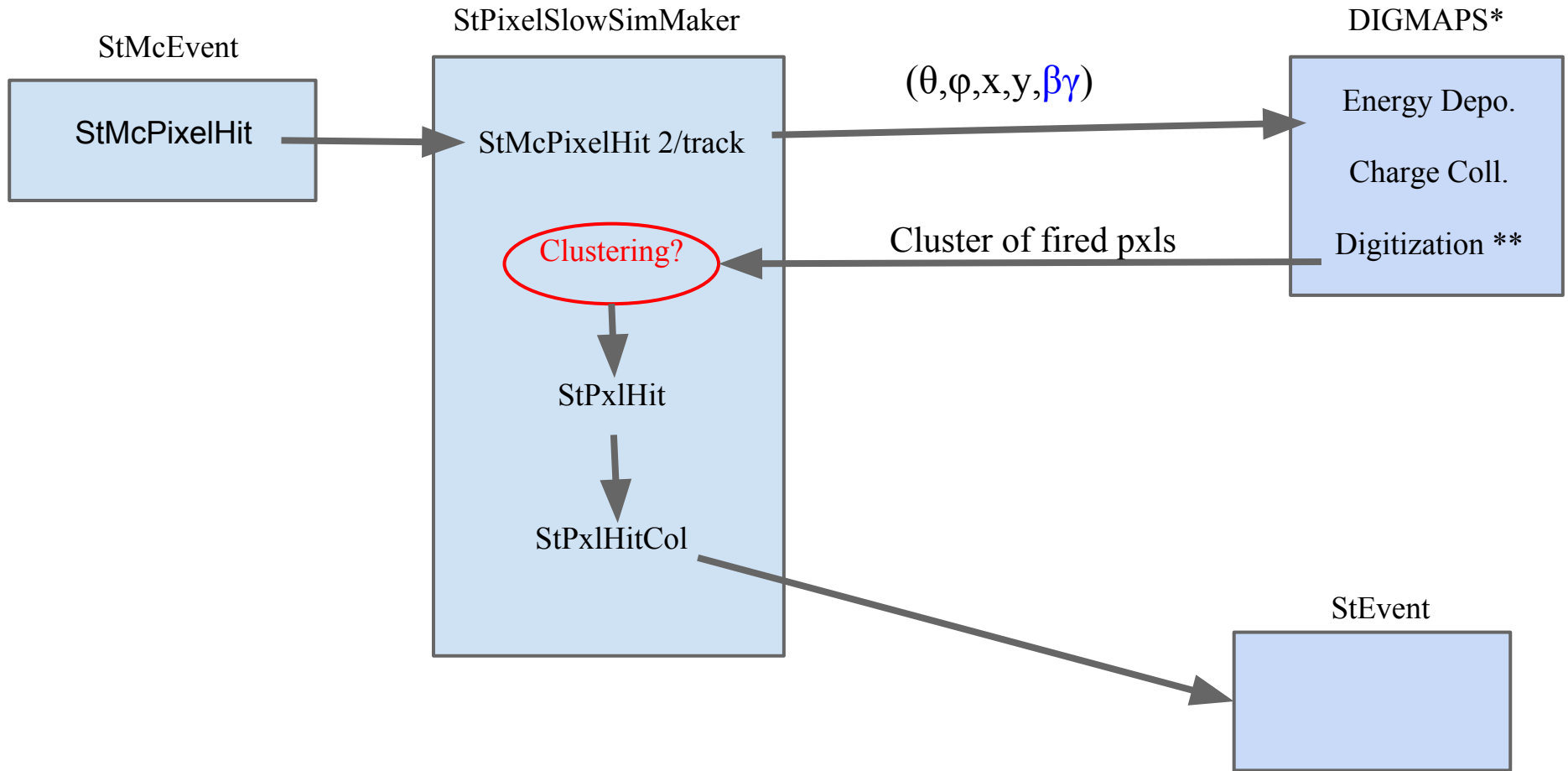# PXL Simulators

For the current purposes we need the following:

- StPixelFastSimMaker
- StPixelSlowSimMaker (interface for DIGMAPS) *
- StPixelPileupMaker (need to have one implementation to add pileup)

* This class will be an interface to DIGMAPS only. Any suggestions for a more descriptive name?

StPixelSlowSimMaker (interface with DIGMAPS*)

StMcEvent

StPixelSlowSimMaker

DIGMAPS*

StMcPixelHit

StMcPixelHit 2/track

$(\theta,\varphi,x,y,\beta\gamma)$

Energy Depo.

Charge Coll.

Cluster of fired pxls

Digitization **

Clustering?

StPxlHit

StPxlHitCol

StEvent

* A minimized version of DIGMAPS for STAR purposes only.

** Need to set the ADC threshold.

$\beta\gamma$ is not currently used in the implemented energy deposition model.