

sidaug05_np

This is a variant of the Silicon Detector modelled as of August 08, 2005, to be used for detector studies at Snowmass

Please see [sidaug05](#) for details of the baseline geometry.

The compact description of this detector in xml format can be found at http://www.lcsim.org/detectors/sidaug05_np.zip .

What follows is a plain text description of the differences between the compact descriptions of sidaug05_np and its baseline model, sidaug05.

The basic change was that the main calorimeter-like subdetectors, which are projective in sidaug05, have been made non-projective in sidaug05_np. The segmentation of sensitive layers is shown below.

Segmentation details

These are the segmentation details used in the definition of this detector:

component	segmentation
EMBarrel	0.4cm x 0.4cm
EMEndcap	0.4cm x 0.4cm
HADBarrel	1cm x 1cm
HADEndcap	1cm x 1cm
MuonBarrel	3cm x 3cm
MuonEndcap	3cm x 3cm

Cell indices

The number of bits in calorimeter cell IDs have also been changed with respect to sidaug05, from 11 bits to 16 bits, including forward ECAL endcaps.