# SBSBBShower and SBSBBTotalShower

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#### 1 Introduction

It is best to call the SBSBBTotalShower constructor in the replay script without a separate SBSBBShower contructor for the PreShower and SHower. If one wants to just setup either the PreShower or Shower, then one can call the BBShower contructor individually. The SBSBBTotalShower constructor inherits from SBSCalorimeter. The SBSBBTotalShower constructor calls a Setup method which constructs both fShower and fPreShower from the SBSBBShower contructor. SBSBBShower constructor inherits from the SB-SCalorimeter and sets SetModeADC(SBSModeADC::kWaveform) and SetModeTDC(SBSModeTDC::kNone).

### 2 ReadDatabase

The SBSBBTotalShower::Init function calls the fShower::ReadDatabase and the fPreShower::ReadDatabase. The SBSBBSHower::ReadDatabase first call the SBSCalorimeter::ReadDatabase. Then additional parameters are optionally read in, but need to revisit these parameters. The SBSBBTotal-Shower::ReadDatabase optional reads in additional parameters.

Parameter	Description	Global variable
thr_adc		fThrADC
clus_rad		fClusRadius
mc_data		fMCdata
dxdydz	used only locally	dxyz

## 3 Decode

SBSBBTotalShower::Decode calls fShower nad fPreShower Decode methods.

### 4 CoarseProcess

SBSBBTotalShower::CoarseProcess first calls fShower and fPreShower CoarseProcess methods. Then it calls fShower and fPreShower MakeGoodBlocks methods. It call fShower FindCluster method. Need to add method to match the preshower good blocks with the shower clusters

## 5 FineProcess

SBSBBTotalShower::FineProcess calls fShower FineProcess method. Need to add fPreshower FineProcess call