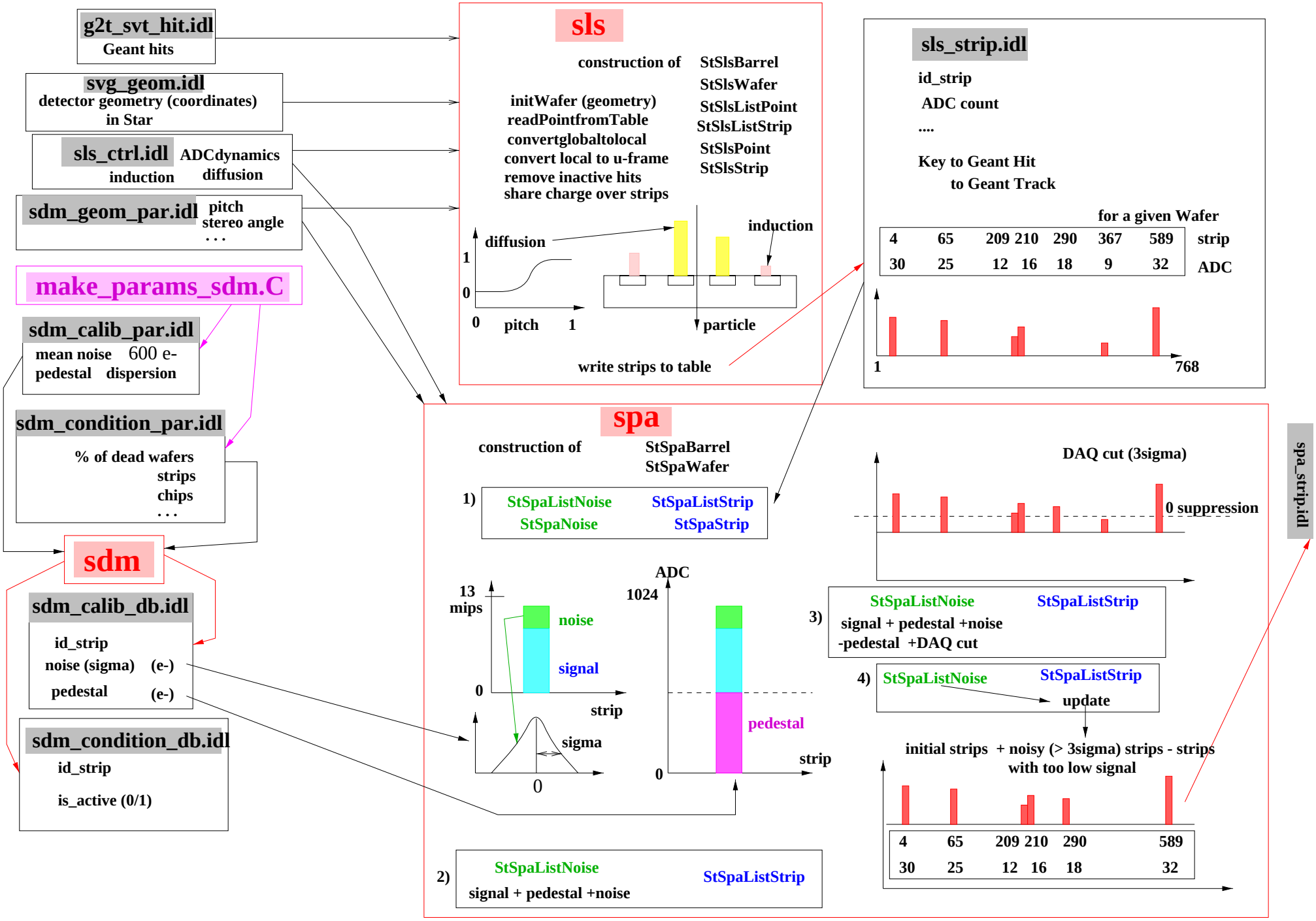
g2t_svt_hit.idl
Geant hits
svg_geom.idl
detector geometry (coordinates)
in Star
sls_ctrl.idl
ADCdynamics
induction
diffusion
sdm_geom_par.idl
pitch
stereo angle
. . .
make_params_sdm.C
sdm_calib_par.idl
mean noise
600 e-
pedestal
dispersion
sdm_condition_par.idl
% of dead wafers
strips
chips
. . .
sdm
sdm_calib_db.idl
id_strip
noise (sigma) (e-)
pedestal (e-)
sdm_condition_db.idl
id_strip
is_active (0/1)
sls
construction of
StSlsBarrel
StSlsWafer
StSlsListPoint
StSlsListStrip
StSlsPoint
StSlsStrip
initWafer (geometry)
readPointfromTable
convertglobaltolocal
convert local to u-frame
remove inactive hits
share charge over strips
diffusion
induction
1
0
0
pitch
1
particle
write strips to table
sls_strip.idl
id_strip
ADC count
....
Key to Geant Hit
to Geant Track
for a given Wafer
4 65 209 210 290 367 589 strip
30 25 12 16 18 9 32 ADC
1
768
spa
construction of
StSpaBarrel
StSpaWafer
1)
StSpaListNoise
StSpaListStrip
StSpaNoise
StSpaStrip
13
mips
noise
signal
0
strip
sigma
0
ADC
1024
pedestal
0
strip
2)
StSpaListNoise
StSpaListStrip
signal + pedestal +noise
DAQ cut (3sigma)
0 suppression
3)
StSpaListNoise
StSpaListStrip
signal + pedestal +noise
-pedestal +DAQ cut
4)
StSpaListNoise
StSpaListStrip
update
initial strips + noisy (> 3sigma) strips - strips
with too low signal
4 65 209 210 290 589
30 25 12 16 18 32
spa_strip.idl