



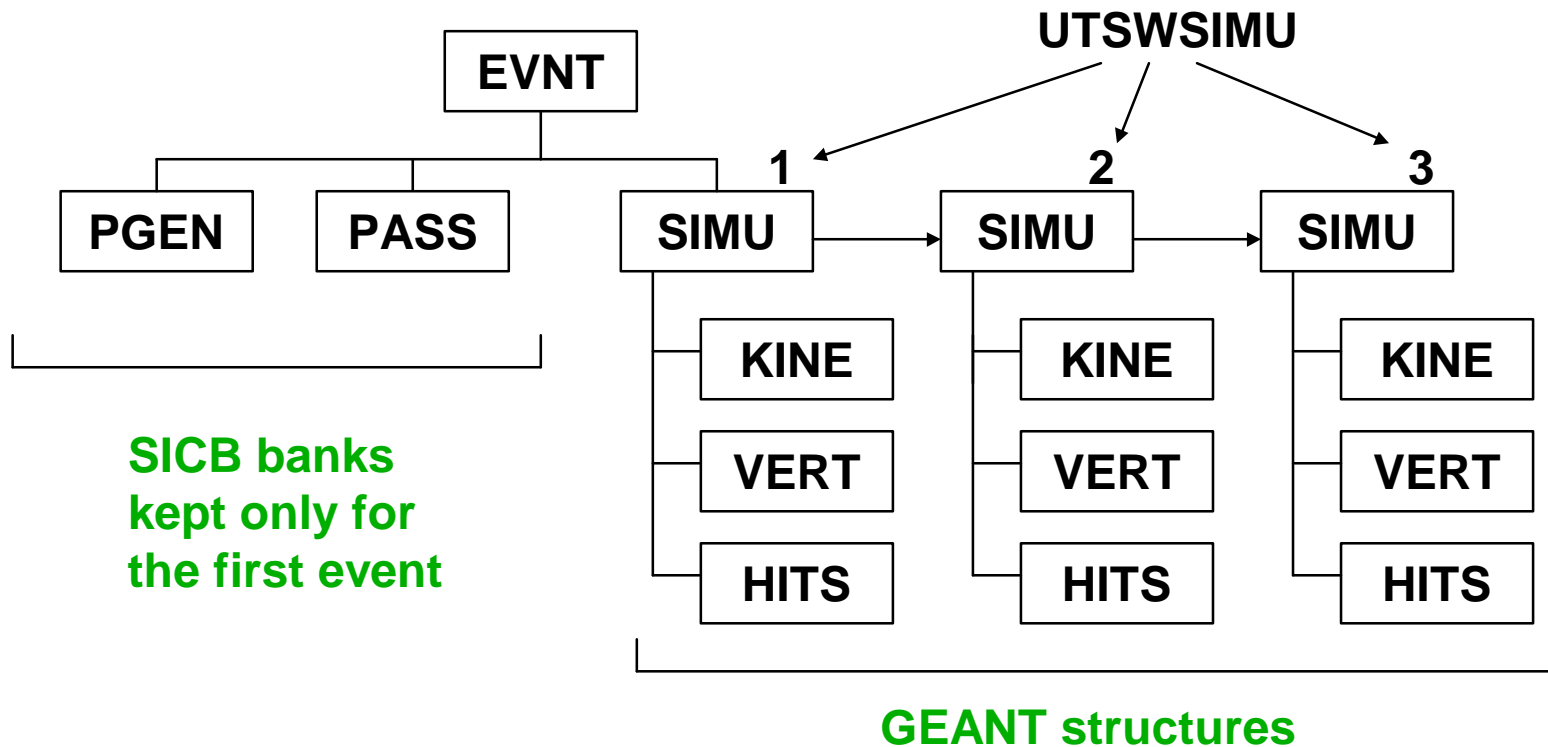
Managing pile-up in SICBDST

◆ Outline

- Pile-up in SICB
- Pile-up in SICBDST
- Status

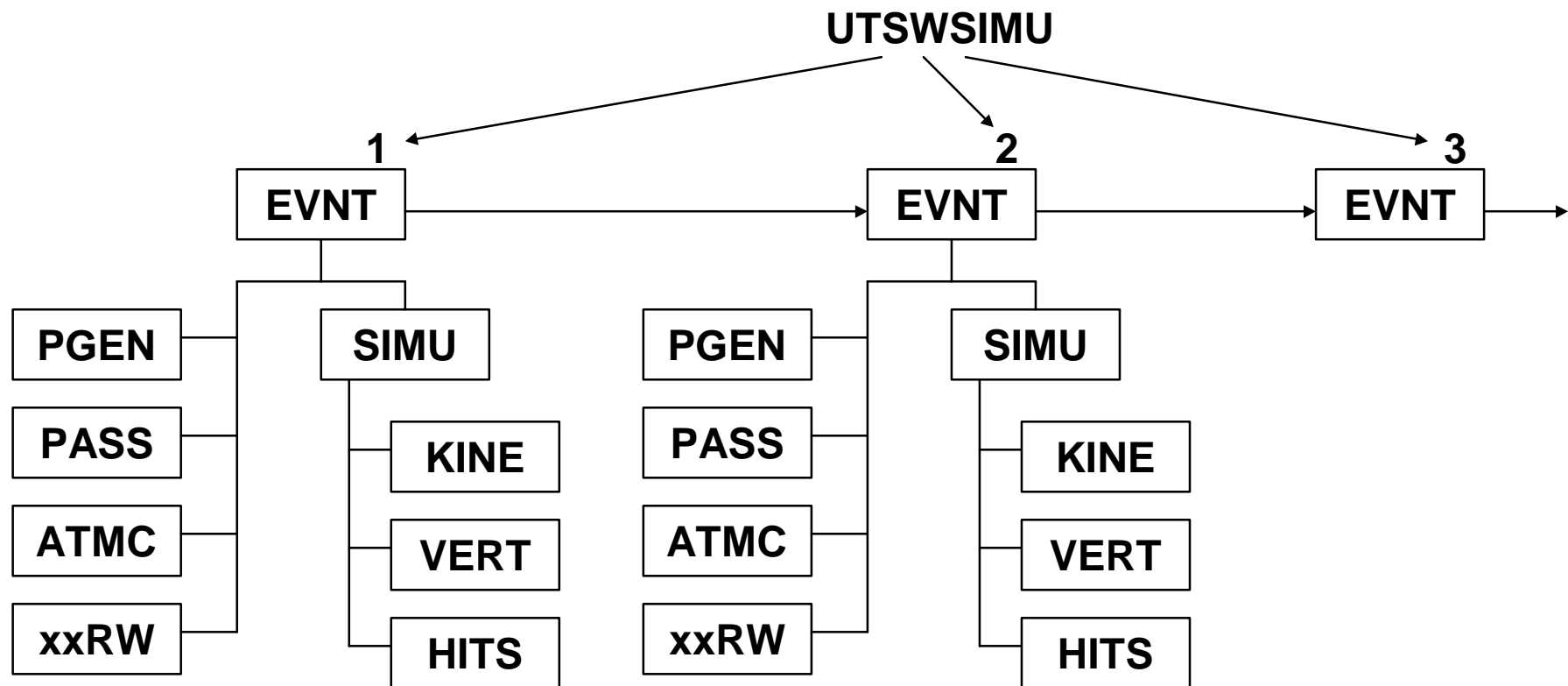


Pile-up in SICB





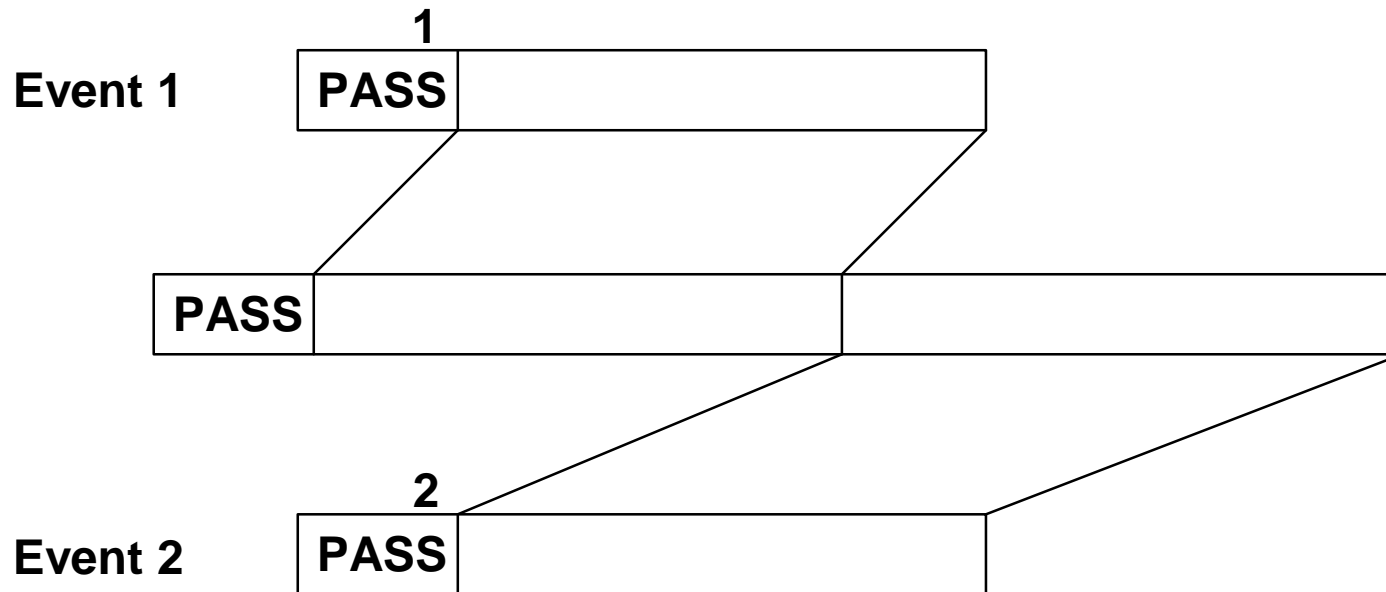
New pile-up scheme





Pile-up in SICBDST

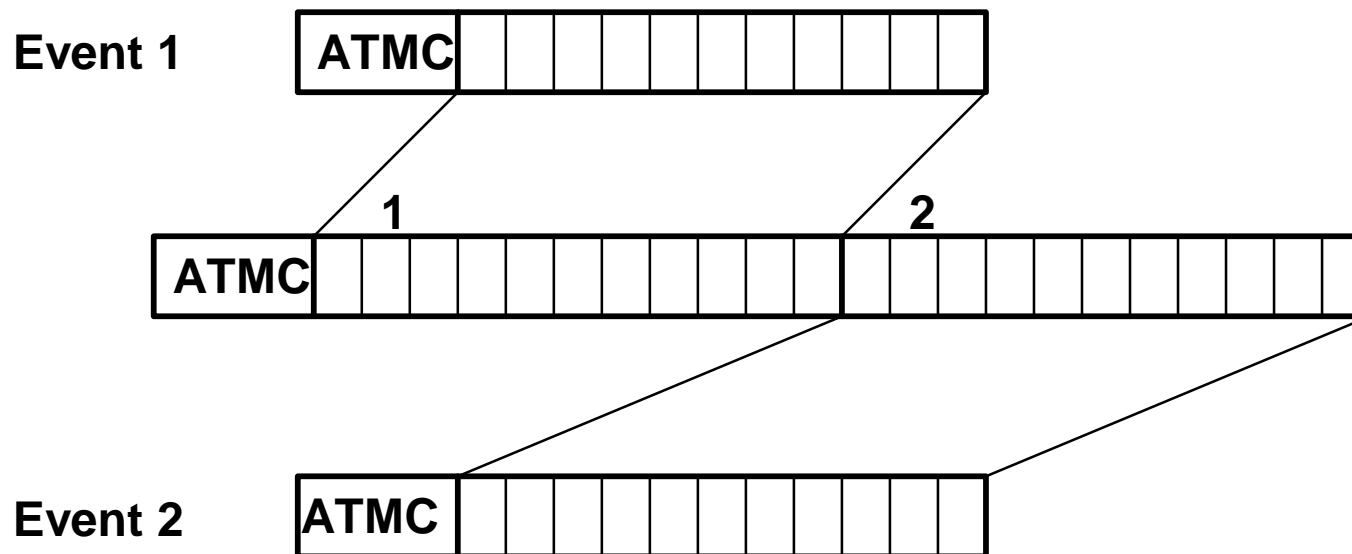
PASS bank contains multiple objects after merging





Pile-up in SICBDST (2)

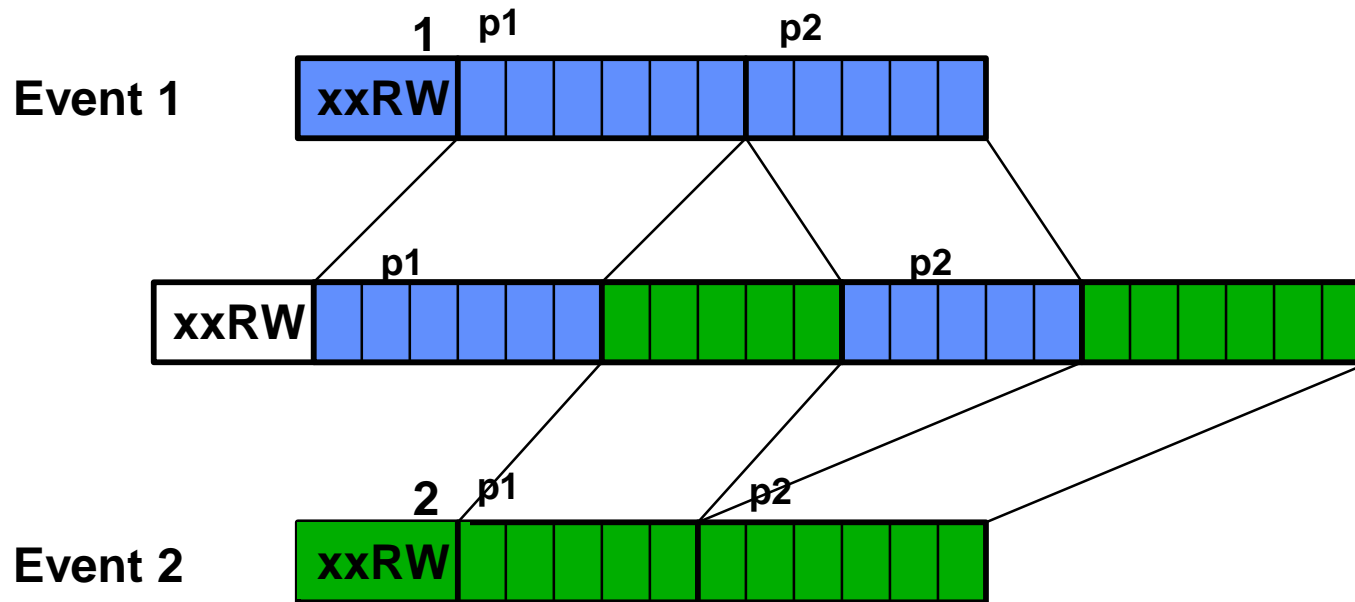
ATMC, AVMC, PGEN become multipartition banks





Pile-up in SICBDST (3)

RW banks have partitions with objects from different events





Pile-up in SICBDST (4)

◆ References retained

- ATMC \rightarrow PGEN
- ATMC \leftrightarrow AVMC
- ATMC \leftrightarrow xxRW



Pile-up in SICBDST (5)

◆ Features

- all the pile-up events information is retained (**PASS,PGEN** banks);
- works transparently for a user, need no special subdetector code
 - assumes a certain structure of a RW bank:
 - ◆ the first reference type is → **ATMC**
- works both with MC and RW data formats;



Status

- ◆ **Compiled and checked with SICB v223**
- ◆ **Compilation and test with SICBDST v230 is to be done**
 - **will be only released with SICBDST**
- ◆ **Need a careful test by all the subdetector experts together with other SICBDST features**
 - **RW banks integrity;**
 - **valid references.**