

TIME-GATE OPTIMIZATION IN SICBDST

1. Done by subroutine MUGATESTART in the detector initialization phase.
2. OUTPUT: gate start for each region \rightarrow T1_GATE values (not any more in CDF file).
3. CONCEPT:
 - Maximization of acceptance of muons from Beauty.
 - It does NOT emulate a 'real' synchronization procedure.
4. INPUT:
 - A) Gate length (20 ns at present).
 - B) Time-spread effects: chamber jitter, synchronization imprecision (≈ 3 ns).

FUTURE:

- Introduction of realistic chamber jitter distributions for MWPC's.
- Test of simulated time-effects with enough event statistics.