

Summer production

- Goal:
Establish the impact of the forward PID and backward EMC on $B \rightarrow K(^*)\nu\nu$, $B \rightarrow \tau\nu$ + Breco tag, including the machine backgrounds ((rad)Bhabha, pairs)
- Statistics needed w.r.t. February: at least 10x
- Time plan: freeze code and complete validation shortly after the Elba meeting

main open issues

- processing time: w.r.t. Feb production, estimated a 6x increase of cpu-hours. Need to improve the prod. efficiency. Several paths:
 - pairs suppression using SVT dE/dx info
 - generation of only a subset of generic $B\bar{B}$ events
 - big effort going on in DGWG/FastSim to characterize backgrounds (see DGWG meeting last week)
- PID selectors: aim at using 'real' PID selectors including: dE/dx (SVT+DCH), DIRC, TOF, IFR
 - dE/dx SVT now available. It needs tuning
 - DIRC response not perfect yet. Hopefully it will be improved for Elba
 - At the last fastsim meeting it was agreed to implement a TOF response by Elba
 - muon selector could be available as well, work in progress
- still discrepancies between FullSim and FastSim machine background simulation, under investigation