

EM Background From Event Mixing

- David L. wrote hddm_merge_events program, merges hits from multiple hddm files
 - Idea: Including EM background by mixing together bggen and background template events can dramatically reduce CPU time needed
 - N.B. Took awhile to realize this relied on HDDDM C API, currently limited to pre-mcsmear files.
- Generated equal amounts of bggen and EM bkg. events.
 - EM bkgd generated by shooting pions down the beam pipe using modified genpi program.
 - $E(\gamma) = 7 - 12$ GeV, coherent brem., BGRATE = 1.10
Solenoid current = 1200A
- Compare results with bggen events generated with standard EM background simulation