

Fast emulation of track reconstruction in CMS simulation

- Fast simulation widely used in CMS for
 - parameter scans in searches for BSM physics
 - assessment of systematics
 - to increase MVA training statistics
- fast tracking achieved by looking up MC-truth information
 - skips combinatorial background but keeps quality & acceptance requirements
- full production chain can run from MC generator to analysis objects in just 1 job
 - only requires ~10-20s per event (up to 100 pileup interactions)