



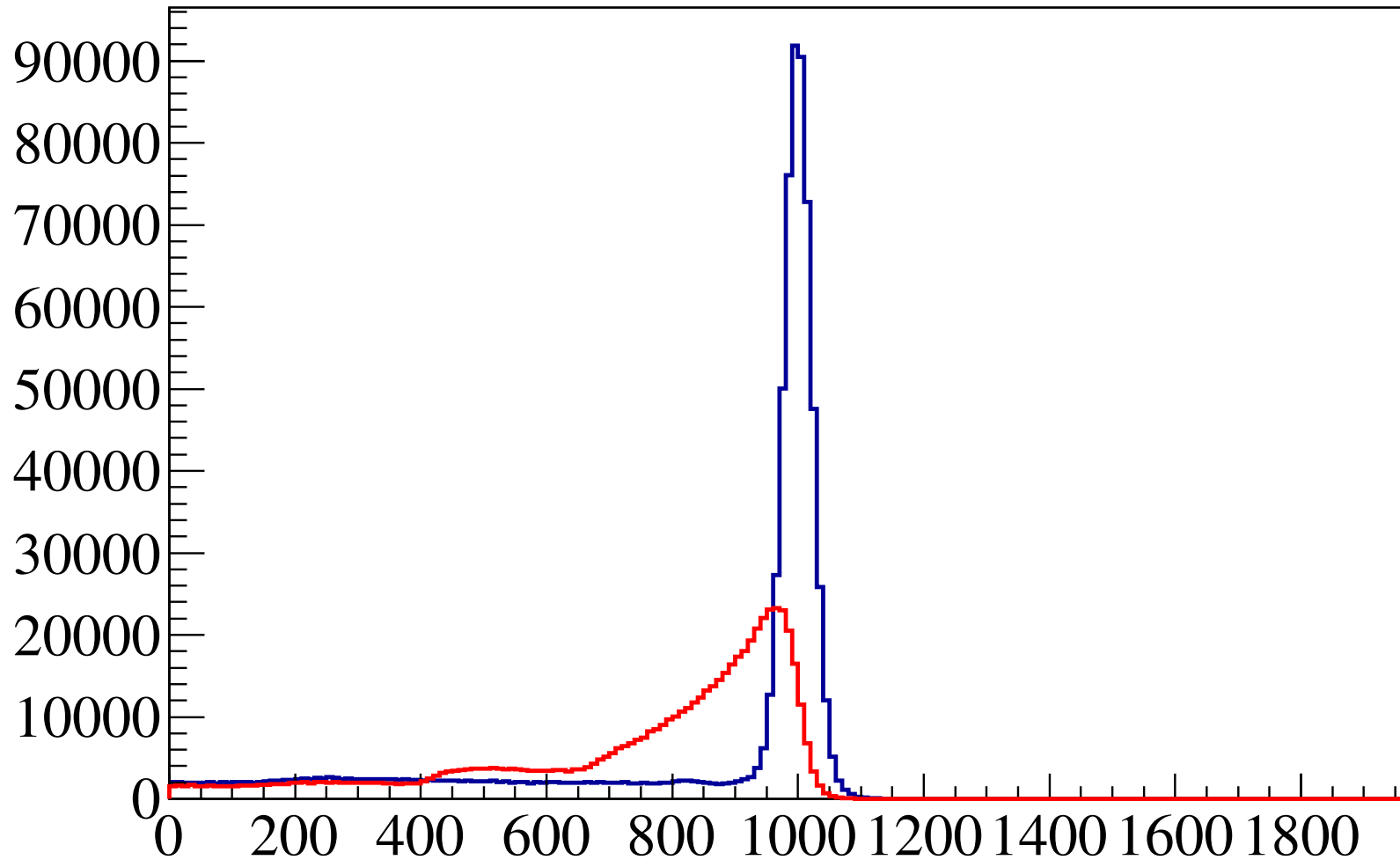
Remarks

- ❑ Can now set time resolution individually
- ❑ Simulation code not really designed for timing
 - Fixed by adding simulated decay time after interaction to histogram
- ❑ Need to correct for path length, not yet done
- ❑ “intrinsic” resolution seems to be in the order of 100 ps (sigma)
 - From different FI position? Needs to be checked
- ❑ Further reduction of background possible
 - About 3 % backscattered at 1 MeV, 7 % at 5 MeV



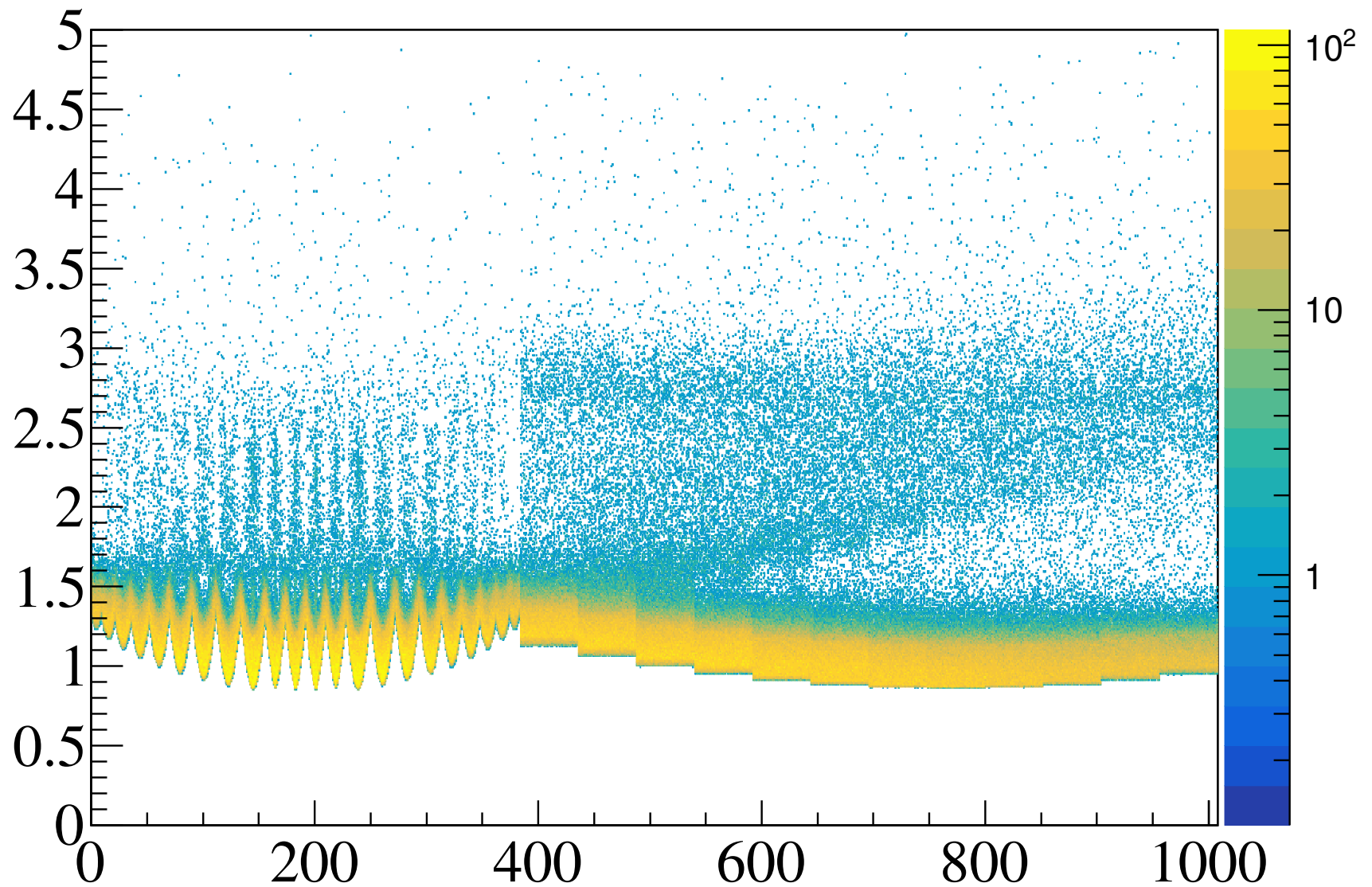
Lifetime Effect in Transition Energies

0ps vs 1000ps



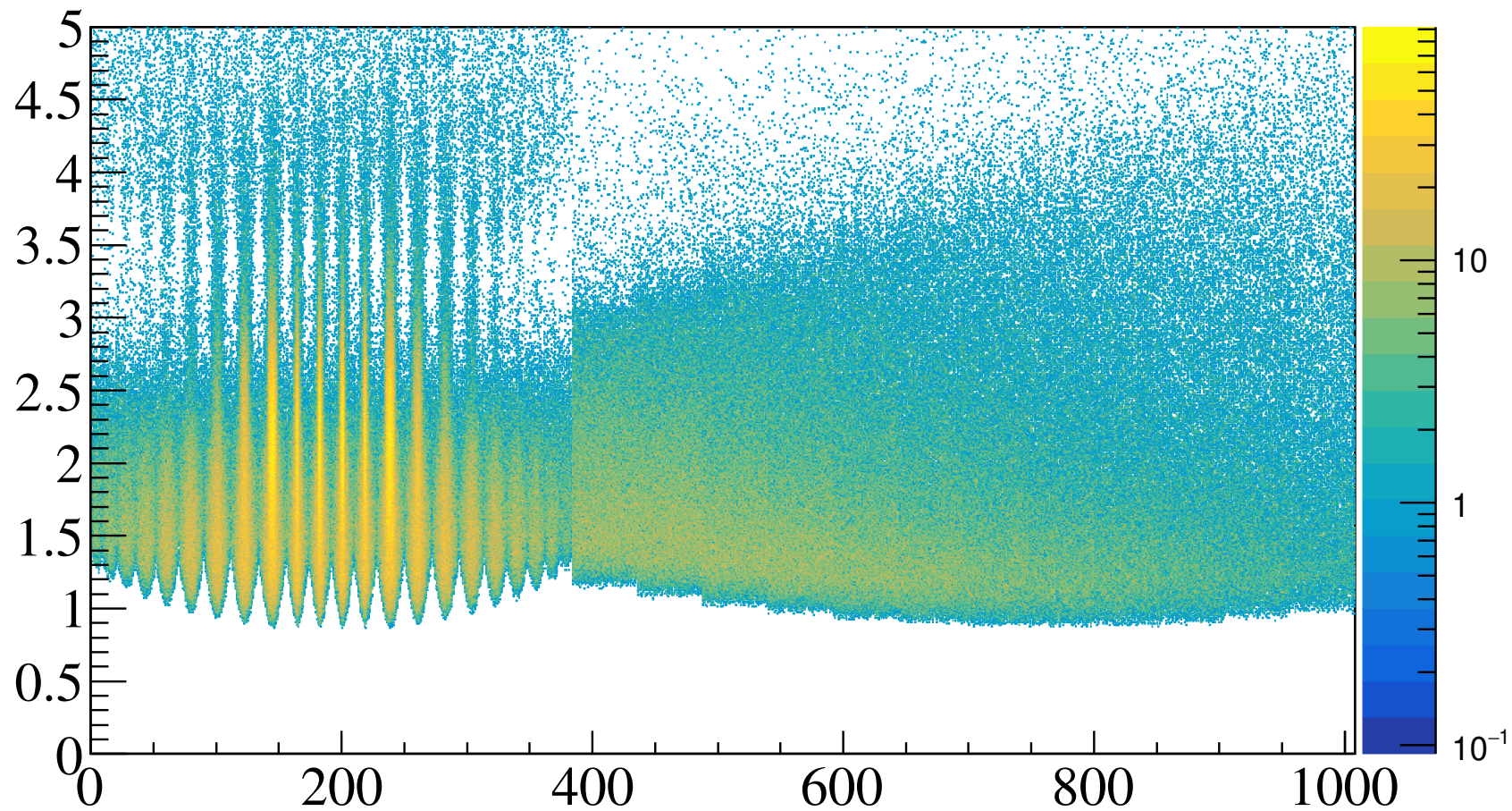


Detector ID vs Time, 0 ps, 1 MeV



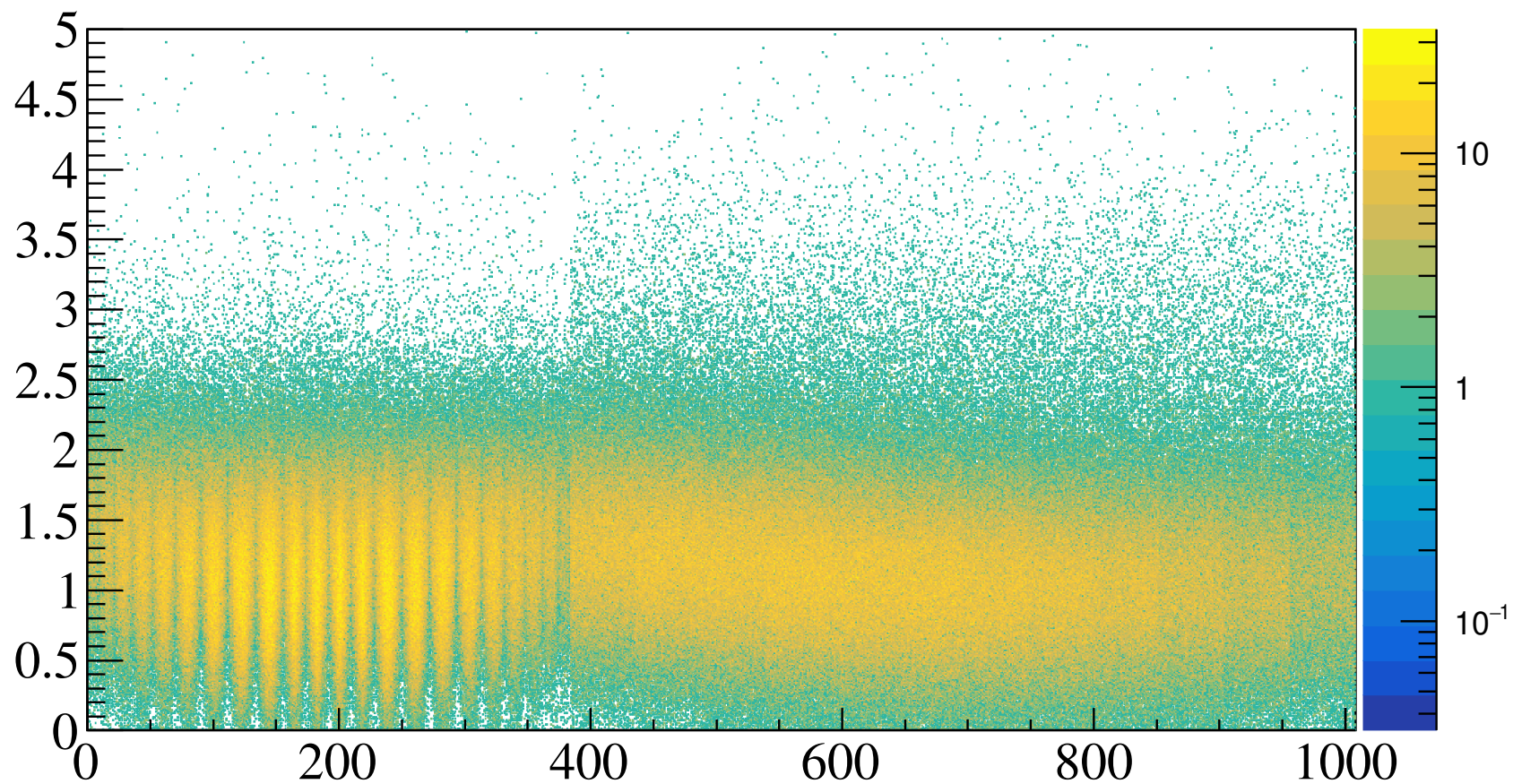


Detector ID vs Time, 1000 ps, 1 MeV



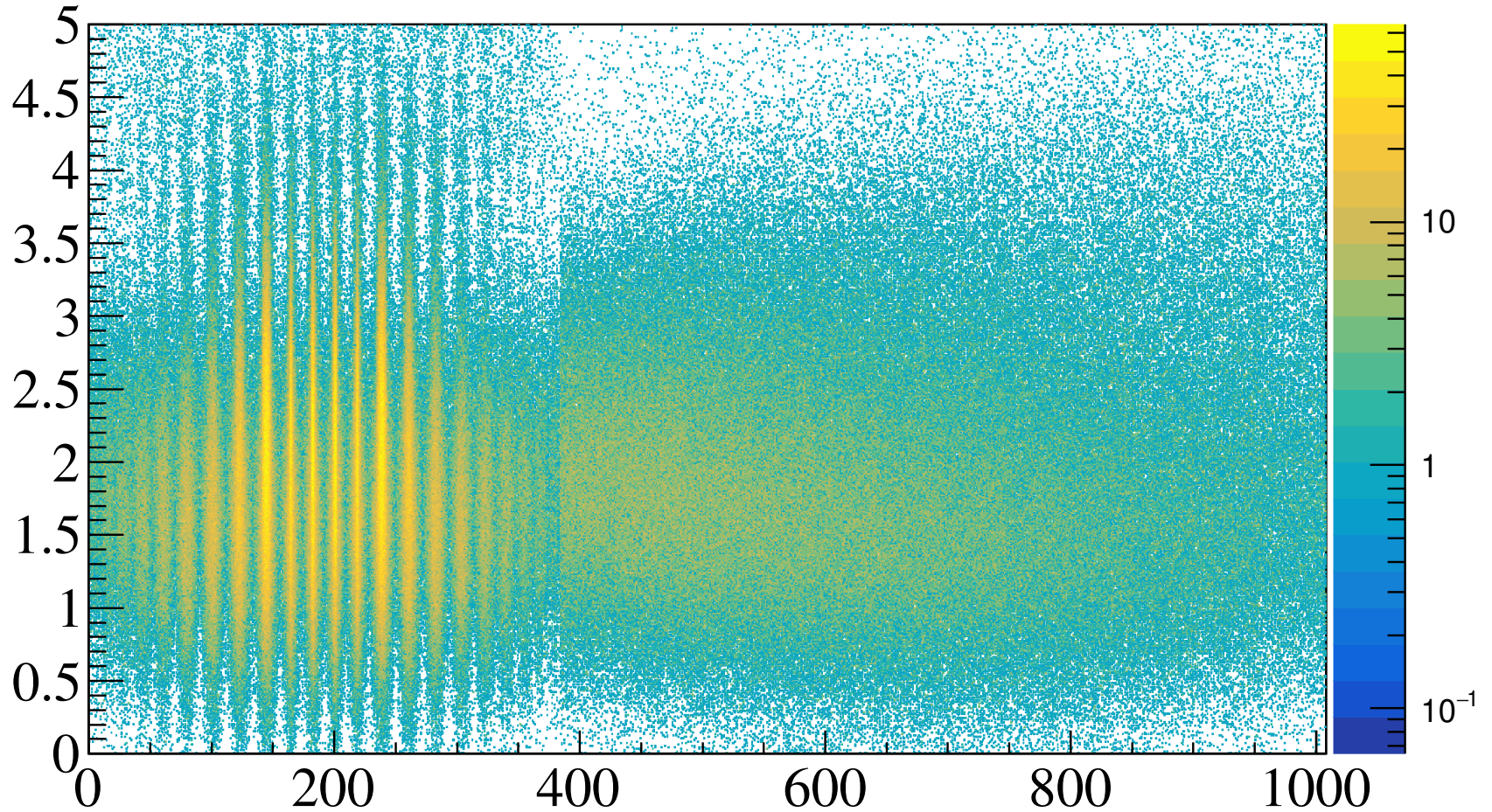


Detector ID vs Time, 0 ps, 1 MeV, 500 ps resolution sigma



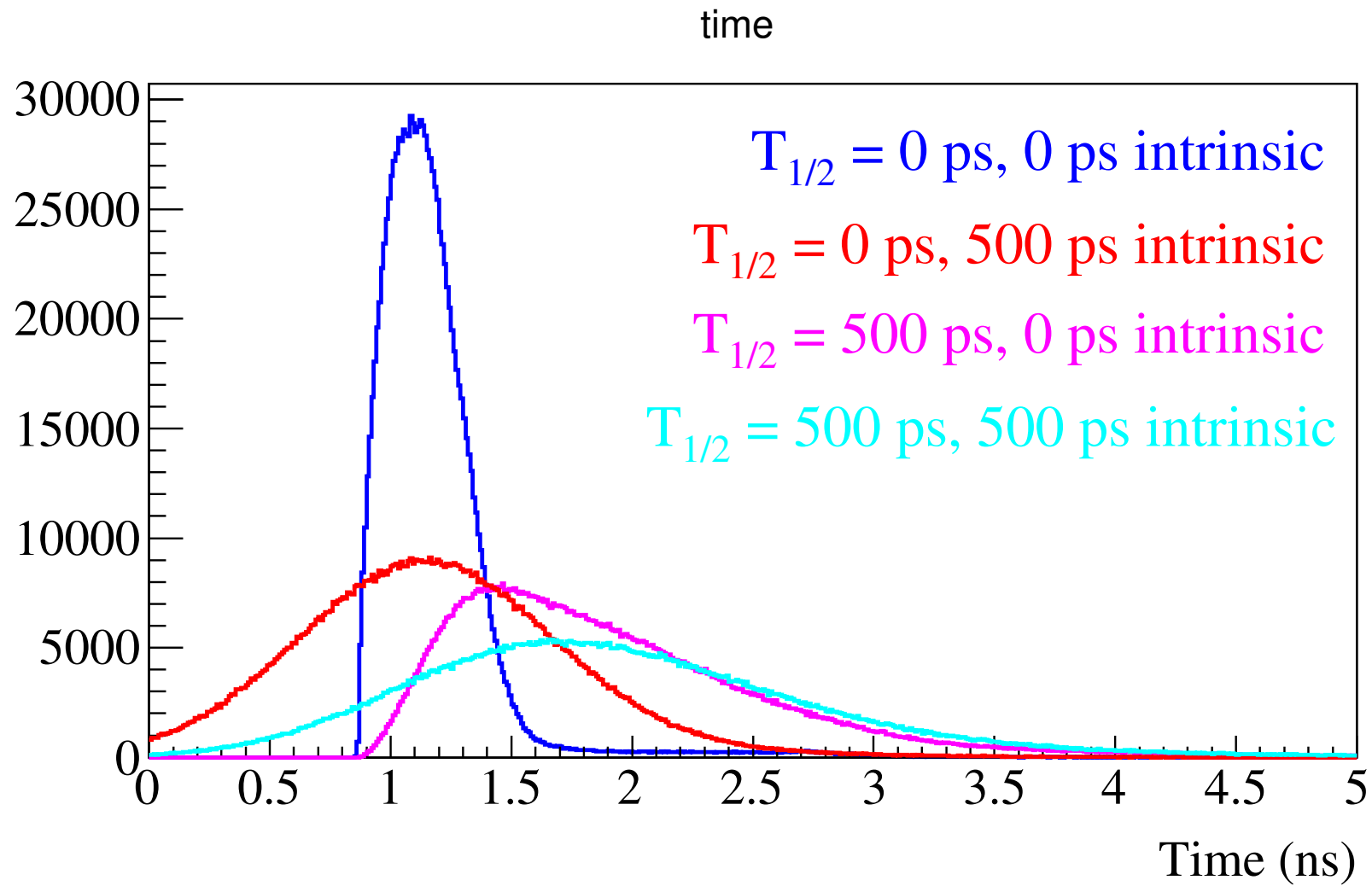


Detector ID vs Time, 1000 ps, 1 MeV, 500 ps resolution sigma





Comparison





Detector ID vs Time, 0 ps, 5 MeV

