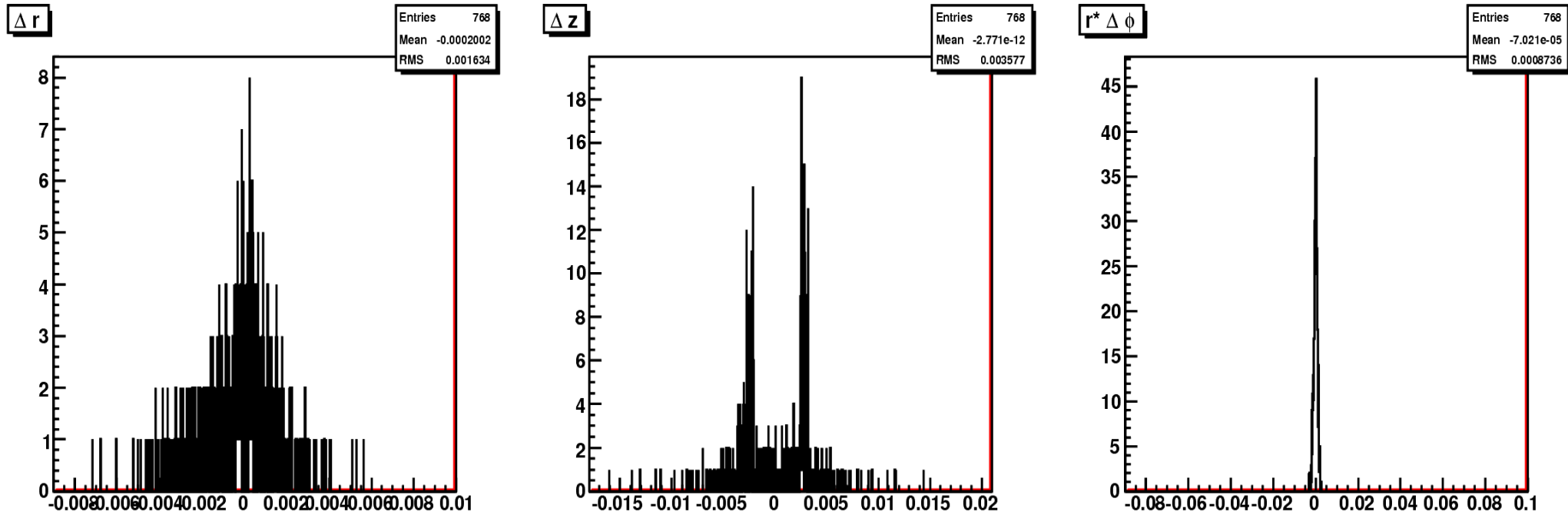
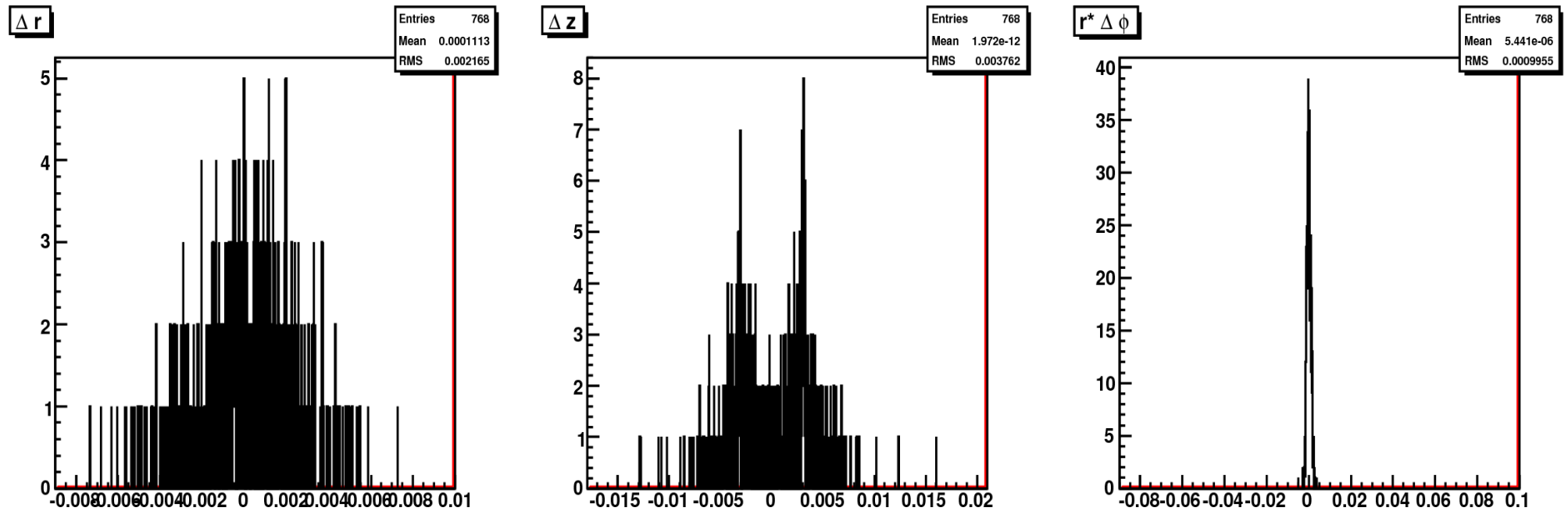


MP MinBias **HLS(half shells) & dets** alignment starting from nov. geometry requiring standard track selection 25 hits per alignable (dominated by forward tracks) vs Nov. Geometry



Number of records = 244546

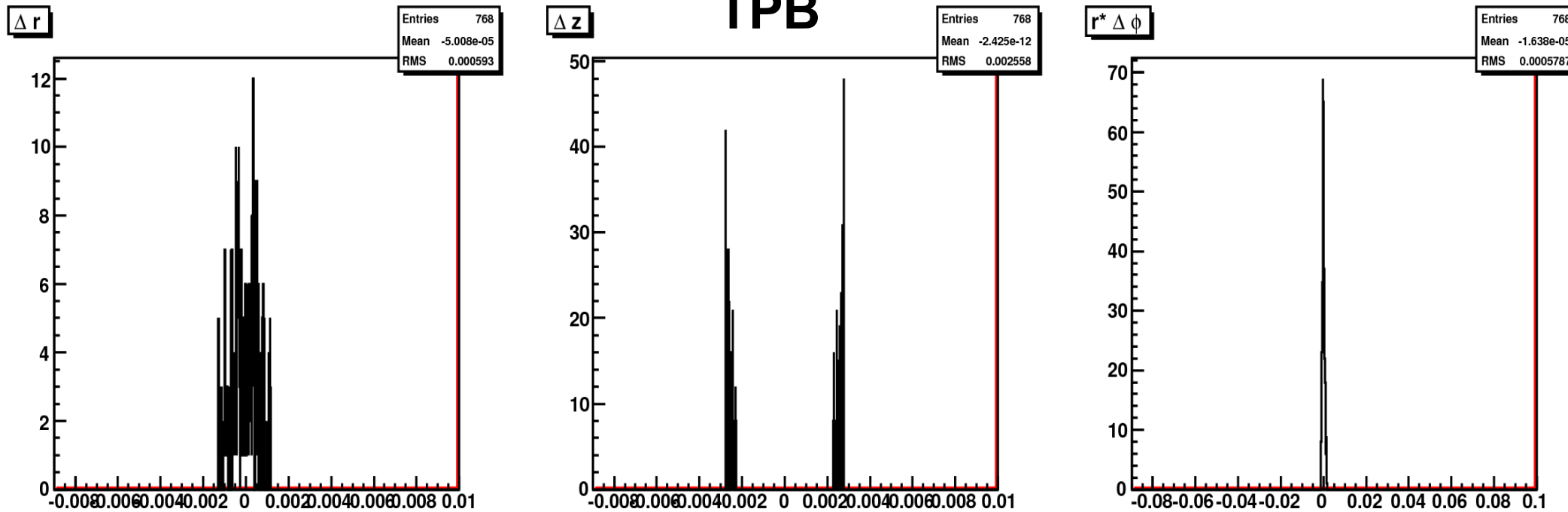
MP MinBias **HLS(half shells) & dets** alignment starting from nov. geometry requiring 2hits in TIB, **25 hits** per alignable vs Nov. Geometry



Number of records = 36429

--> shift of the 2 half shells still visible about 20-30 micron

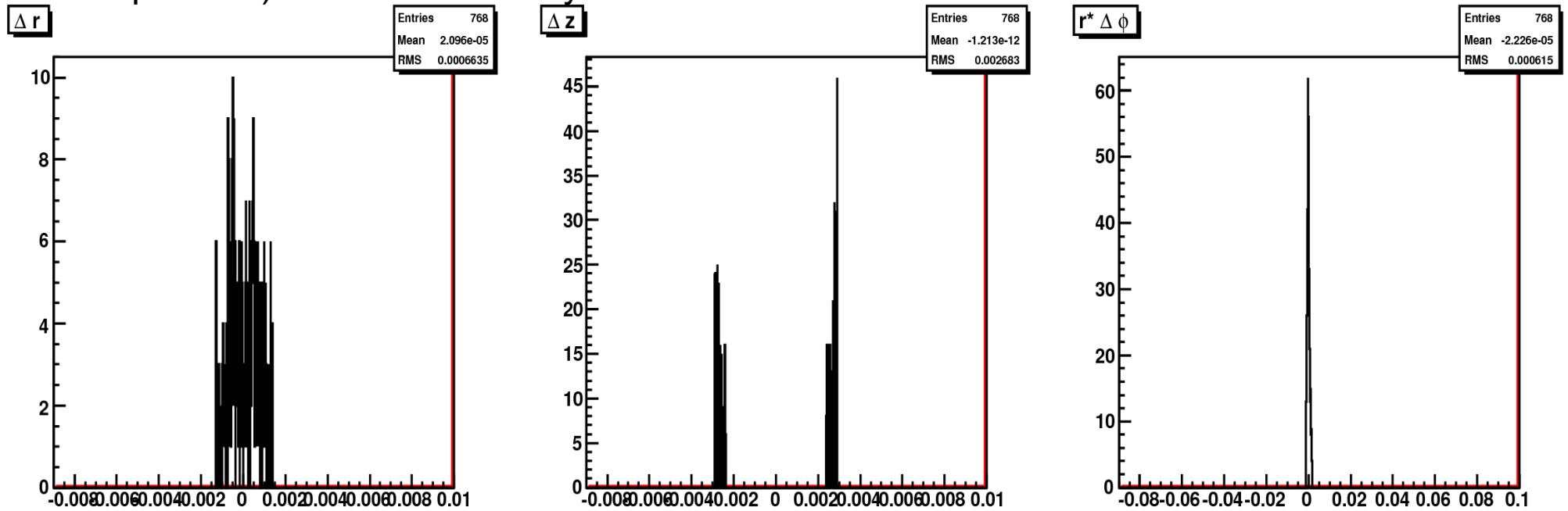
MP MinBias **HLS(half shells)** Alignment starting from nov. geometry requiring 4hits in TOB, **25 hits** per alignable (no dets anymore: insufficient constraint equations) vs Nov. Geometry



Number of records = 11706

--> shift of the 2 half shells still visible, not an effect of different (forward dominated) tracks

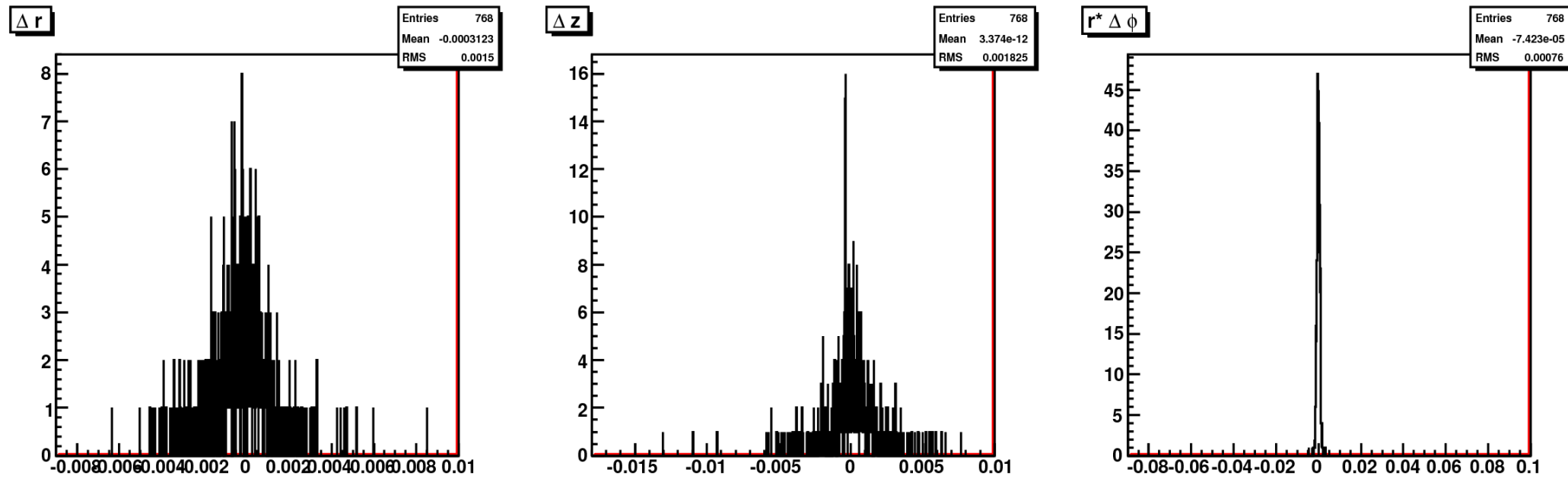
MP MinBias **HLS(half shells)** Alignment starting from nov. geometry requiring tracks with  $|\eta| < 1.4$ , **100 hits** per alignable (no dets anymore: insufficient constraint equations) vs Nov. Geometry



Number of records = 19848

--> shift of the 2 half shells still visible, not an effect of different (forward dominated) tracks

MP MinBias **HLS(half shells) & dets** alignment starting from nov. geometry requiring standard track selection 25 hits per alignable (dominated by forward tracks) vs. MP MinBias **HLS(half shells) & dets** alignment starting from nov. geometry requiring 2hits in TIB, **25 hits** per alignable



Different track selecting probably only effecting modules that are not aligned and thus remain at starting position (tails)