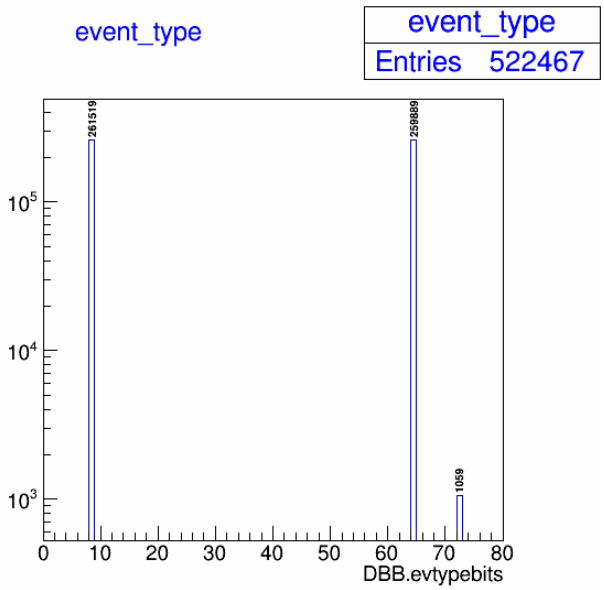
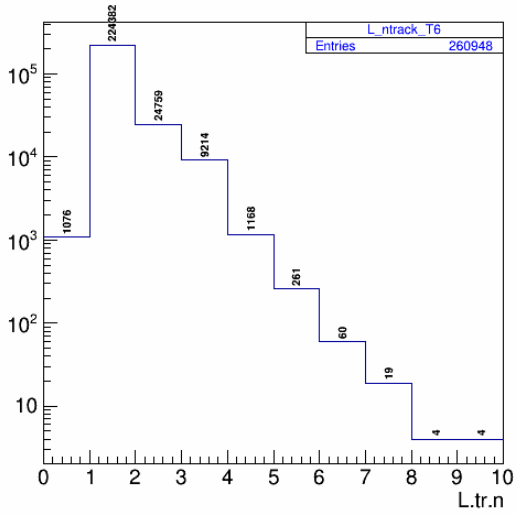
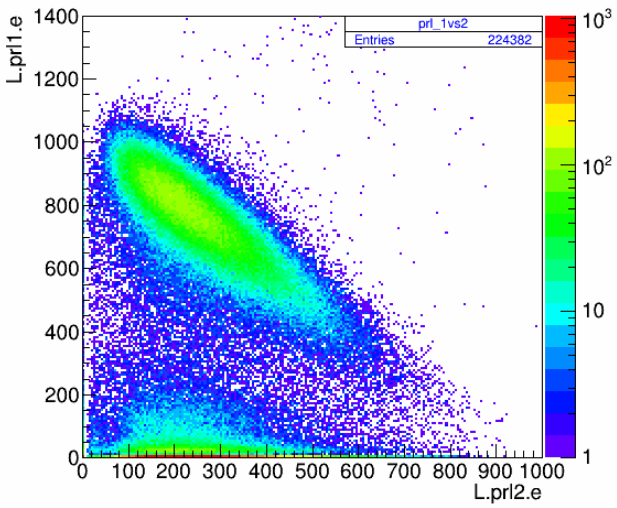
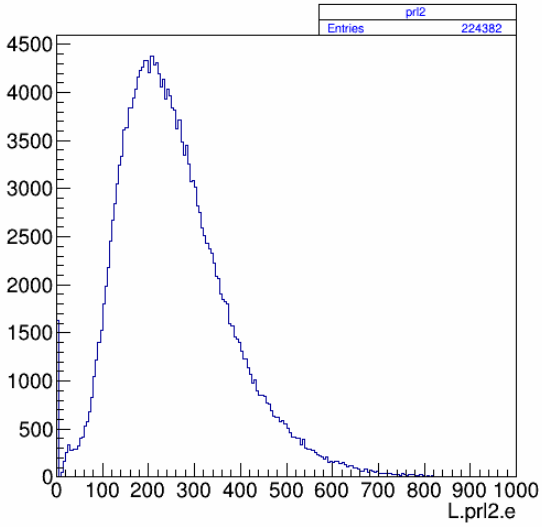
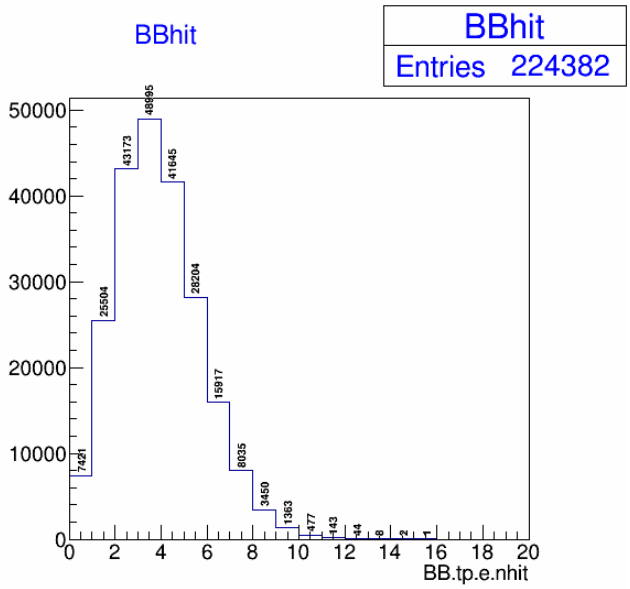
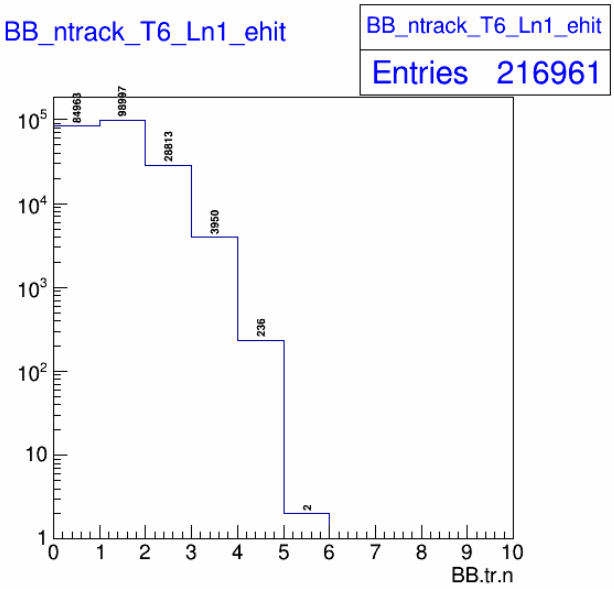
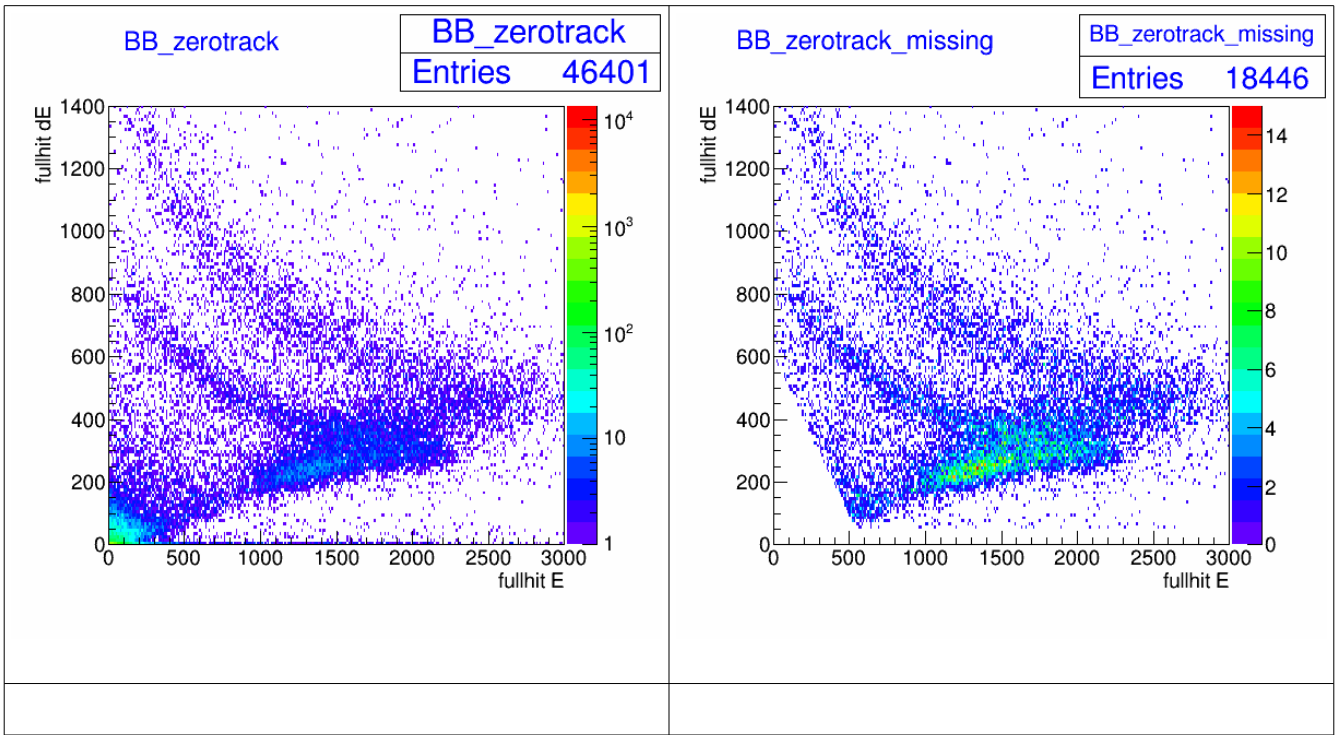
Event with various cut (run 2035)

	Select Cut		Entries	%	
0	Total entries		522510		
1	T6 no edtm	 (T3 = 261519) (T6 = 259889) (T3&T6 = 1059)	260948	49.9	From total entries
2	LHRS has track + T6 no edtm	 No track = 1076	259872	99.5 0.4	From T6
2*	LHRS has single track +	For simplicity when making coincidence time	224382	86.0 86.3	From T6 From T6&

	T6 no edtm				LHRS has track
3	Electron PID	We have problem with half of prl1 off-line. The registration in prl2 can still be use as PID. prl_1vs2  prl2  Zero energy deposit = 1628 (0.7% contamination)			

	BigBite	With LHRS & T6	224382		
4.1	BB has hit in E plane	No hit = 7421  As expected because T6 come from hit in E plane	216961	96.7	From LHRS has single track + T6 no edtm
4.2	BB has track + has hit in E plane	 No track = 84963 (39.1%) single track 98997 (45.6%)	131998	60.8	From BB has hit in E plane + LHRS has single track + T6 no edtm

Side bar, For the 84963 events with no track, we have 46401 events can be identify as full hit between dE vs E and 18446 event (21% of zero track) that should have been in good reconstruction of track but miss.

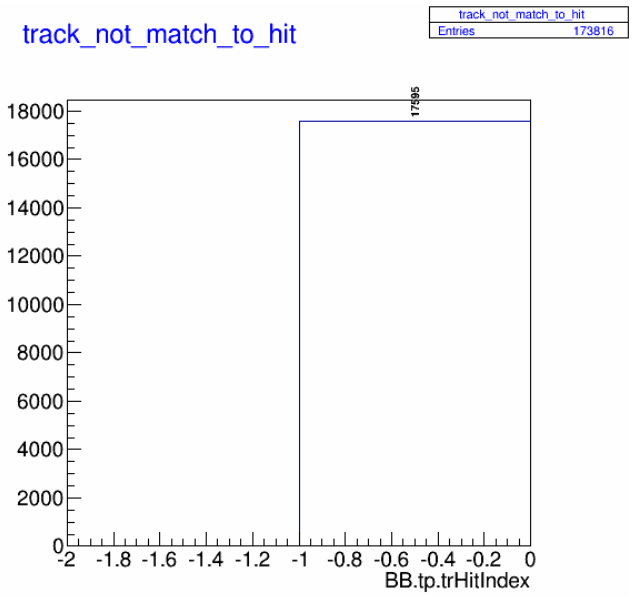


I'm stuck on how should I process with the inefficiency of the BigBite here.

If I only care about the number of event that has hit in E plane but has no track reconstruction then I will have 39.1% inefficiency from MWDC track reconstruction.

But if I take out the data at lowest conner of dE vs E (from fullhit) with zero track =46401-18446 = 27955 event as not miss reconstruction because it is not proton or deuteron in dE vs E anyhow, I will have

131998./ (216961- 27955) = 69.8% MWDC efficiency

4.3	BB has track + has hit + has track and hit matching in either “fullhit” or “parthit” option	 Not able to match = 17595 track from total of 173816 tracks			