

Differences between Old/New OBF

- Using release v7r0p3
- Both filters have Julie's updated cal constants

- Filter results:

Veto	OLD	NEW
TKR_LT_2_ELO	0	143
TKR_SKIRT	83	167
TKR_EQ_0	573	660
TKR_ROW2	18	22
TKR_ROW01	69	67
TKR_TOP	58	59
ZBOTTOM	611	558
ELO_ETOT_90	0	106
ELO_ETOT_01	0	174
SIDE	172	170
TOP	48	46
SPLASH_1	0	18
E350_FILTER_TILE	62	58
E0_TILE	480	388
SPLASH_0	98	90
NOCALLO_FLT_TILE	350	276

Differences between Old/New OBF (2)

- The "zeroes" are easy: filters are commented out in the OLD filter. Can be easily mased in the NEW.

Veto	OLD	NEW	
TKR_LT_2_ELO	0	143	
TKR_SKIRT	83	167	
TKR_EQ_0	573	660	
TKR_ROW2	18	22	
TKR_ROW01	69	67	
TKR_TOP	58	59	
ZBOTTOM	611	558	
ELO_ETOT_90	0	106	
ELO_ETOT_01	0	174	
SIDE	172	170	
TOP	48	46	
SPLASH_1	0	18	
E350_FILTER_TILE	62	58	
E0_TILE	480	388	
SPLASH_0	98	90	
NOCALLO_FLT_TILE	350	276	
			Overall Triggers
			OLD: 1304
			NEW: 1225

Differences between Old/New OBF (3)

- Some events enter in the OLD filter, but don't get into the NEW (EbfWriter trigger requirement)
 - ~100/10000 evts
 - Still under study why this is the case
- Check: require common events in both old OBF and new OBF

Veto	OLD	NEW
TKR_LT_2_ELO	0	143
TKR_SKIRT	83	167
TKR_EQ_0	573	660
TKR_ROW2	18	22
TKR_ROW01	69	67
TKR_TOP	58	59
ZBOTTOM	611	558
ELO_ETOT_90	0	106
ELO_ETOT_01	0	174
SIDE	172	170
*TOP	47	46
*SPLASH_1	0	18
*E350_FILTER_TILE	60	58
*E0_TILE	388	388
*SPLASH_0	90	90
*NOCALLO_FLT_TILE	270	276

Overall Triggers

OLD: 1210

NEW: 1225

Differences between Old/New OBF (4)

- Still a large difference in TKR_EQ_0
 - Turns out that energy requirement is missing in new.
 - Add this back in, somewhat better agreement (note: removed trigger requirement in EbfWriter)
 - Much better agreement
- Still a discrepancy in
 - TKR_SKIRT, ZBOTTOM
 - Under study

	OLD	NEW
Veto		
TKR_LT_2_ELO	0	141
TKR_SKIRT	83	168
TKR_EQ_0	573	548
TKR_ROW2	18	22
TKR_ROW01	69	64
TKR_TOP	58	61
ZBOTTOM	611	574
ELO_ETOT_90	0	108
ELO_ETOT_01	0	177
SIDE	172	171
*TOP	48	50
*SPLASH_1	0	18
*E350_FILTER_TILE	62	60
*E0_TILE	480	480
*SPLASH_0	98	98
*NOCALLO_FLT_TILE	350	359

Overall Triggers

OLD: 1304

NEW: 1304