linac_variations

Inj_real_P	NL_real_P	SL_real_P	P^2_A1	P^2_B5	P^2_C5	P_D(MeV/c)	scenario
122	1052	1052	1	0.994	0.999	11634	hope
117	*1042*	*1042*	*1*	*0.98*	*0.999*	*11521*	best hope
123	1048	1055	1	0.985	0.976	11626	hope
123	1055	1048	1	0.994	0.998	11633	hope
118	1030	1057	1	1	0.993	11525	lose cavities in NL
105	1057	1030	1	0.999	0.98	11539	lose cavities in SL
123	1050	1030	1	0.977	1	11515	
124	1050	1030	1	0.992	0.998	11516	
126	1030	1030	1	0.955	0.996	**11399**	lose in both
120	1000	1000	1	**0.864**	**0.884**	**11070**	lost lots in both

bold: problematic

real_P	real momentum, as opposed to eDT/lem setting
P^2	polarization squared figure of merit
A1	first pass to A, parity experiment
B5, C5	fifth pass to B, C
P_D(MeV/c)	momentum to hall D

highlighted variation would have about 32 MeV headroom per linac if all modules perform as hoped

P^2 vs injector P plotted below, showing that setup at nominal (eDT) of 117.3/1039.4/1039.4 would likely allow injectror change only (real linac momentum will be ~1042 MeV in this case)