

PrimEx production

Beam Energy: 11.6 GeV
Beam current: $10^{-4} X_0$
Converter: 750 μm Be

Setup: hd_all.tsg_ccal_prod
Configuration: CCAL_FCAL_PS_m9 (m10)

Production on Be target

Run	Date	Events (M)	PS calib DT	TAGH 4 ns	TAGH TDC	TAGM 4ns	TAGM TDC	FCAL bad ch	FCAL inner
61321	26-Feb	226	7 ch		0	21	21, 63	6 (11)	
61322		68	7 ch			21	21, 63	6(4)	
61323		212	12 ch			same	same	5(9)	
61325		74	12 ch			same	same	3(4)	
61327		94	12 ch			same	same	4(2)	
61329		215	7 ch			same	bad 21, 55-81	4(4)	
61330		228	3 ch			21	21,63	3(5)	
61331		230	7 ch	77		same	same	3(5)	
61332		218	7 ch			same	same	3(9)	
61333		172	5 ch			same	same	4(7)	
61334		37	5 ch			same	same	5(4)	
61335		113	6 ch			same	same	5(4)	
61336		122	4 ch	77		same	same	5(5)	
61337		86	4 ch	77		same	same	5(4)	
61340		19	4 ch			same	same	5	
61341		143	10 ch			same	same	4(7)	
61342		195	1 ch			82,83,84	same (82,83,84)	5(7)	
61343		179	8 ch			same	same	5(4)	
61344		158	5 ch			same	same	4(4)	

Total 2789

Production on He target (small current, include FDC at 50 nA)

Run	Date	Events (M)	PS calib DT	TAGH 4 ns	TAGH TDC	TAGM 4ns	TAGM TDC	FCAL bad ch	FCAL inner
61914	12-Apr	32	14	77		19,21	19 4ns, 21, 63		
61915	10:00 AM	35	14				21,63		
61916		23	14			19,21	19 4ns, 21, 63		
61917		36	14			same	same		
61918		10	14	77		19,21,47	19 and 67 4 ns, 21, 63		
61930		36	14			21	47 4 ns, 21, 63		
61931		10	14	77		19,21	19 4 ns, 21, 63		
61933		27	14	77		same	same		

61934		35	14	77		same	same		
61935		38	14	77		same	same		
61936		42	14			19,21,47	19 and 47 4 ns, 21, 63		
61937		35	14	77		21	21, 63		
61938		33	14	77		19, 21	19 4 ns, 21, 63		
61939		38	14			21	21, 63		
61947		35	15			19,21,47,63 (bad),82,83	19, 47, 82, 83 - 4ns, 21,63		
61950		85	14			21	21, 63		
61951		83	14			21	21,63		
61952		86	14	77		21	63		
61953		83	14			21	21,63		
61954		14	14			21,47,48,82,83,84	21,63		
61955		87	14			a lot (wrong calib)	a lot (wrong calib)		
61956		76	14			a lot (wrong calib)	a lot (wrong calib)		
Total		979	14						

Production on He target

Run	Date	Events (M)	PS calib DT	TAGH 4 ns	TAGH TDC	TAGM 4ns	TAGM TDC	FCAL bad ch	FCAL inner
61866		139	12			21	21, 63		
61867		139	14			same	same		
61868		27	13	77		same	same		
61874		140	13	77		same	same		
61875		141	18	77		same	same		
61876		133	18	77		same	same		
61877		41	18			same	same		
61878		130	16			same	same		
61879		165	18			same	same		
61880		133	23			same	same		
61881		92	15	77		same	same		
61882		114	22			same	same		
61883		55	22	77		same	same		
61884		138	9			same	same		
61885		158	11	77		same	same		
61887		166	14			same	same		
61888		161	22			same	same		
61889		155	16			same	same	crash 0 file	
61890		151	4	77		same	same		
61891		150	17			same	same		
61892		148	20			same	same		
61893		152	17	77		same	same		
61894		163	16			same	same		
61895	11-Apr	65	16			same	same		
61905		139	11			same	same		
61906		144	10	77		same	same		
61908		146	12			same	same		
61909		144	14			same	same		
61910		38	14			same	same		

Total 3339

61358		60	
61359		46	
61360		25	
61361		53	
61362		55	
61363		55	
61364		54	
61365		64	
61366		66	
61367		56	
61368		64	
61369		41	
61370		3 M	raw mode
61371		46	
61372		53	
61373		43	
61374		42	
61375		41	

Total 864

Filling cell with He (LHe cell installed)

Run	Date	Events (M)	Comments
61377	4-Mar	35	

Production on He target

Run	Date	Events (M)	Comments
61378	4-Mar	236	
61379		41	
61391		193	

Total 470

n Energy change from 11.6 GeV to 11.2

Production on He target

Run	Date	Events (M)	Comments
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61434	8-Mar	16	Check target/beam
61435		92	stability
61436		16	
61437		120	
61439		13	
61441		135	
61442		161	
61443		143	
61444		159	
61445		155	
61446		185	
61447		62	
Total		1257	

Unmask FCAL, add separate triggers for CCAL and FCAL

Run	Date	Events (M)	Comments
61462	9-Mar	102	CDC added
61465		159	exclude CDC
61466		147	problems with
61467		175	RootSpy
61468		173	
61469		168	
61470		171	
61471		166	
61472		171	
61473		168	
61474		67	
61475		40	
61476		178	
61477		172	
61478		168	
61479		186	
61480		104	
61481		15	
61482		201	
61483		175	
61484		189	
61485		176	
61486		176	
61487		133	
61488		158	
61489		173	
61490		159	
61491		166	
61493		181	
61494		169	
61495		179	

61496		159	
61497		146	
61498		176	
61499		160	
61500		173	
61501		175	
61502		173	
61503		82	
61504		92	
61505		72	
61506		143	
61507		34	
61508		133	Reset HV, bad ch
61509		175	
61510		174	
61511		176	
61512		177	
61513		118	
61514		160	
61515		172	
61516	14-Mar	50	
61517		165	
61518		167	
61519		158	
61522		105	
61523		126	
61524		83	
61525		103	
61526		221	
61527		27	
61528		87	
61529		176	
61530		190	
61531		154	
61532		159	
61533		37	
61534		45	
61537		120	
61538		47	
61539		44	
61546		160	
61547		158	
61548		171	
61549		168	
61550		137	
61551		53	
61553		161	
61554		167	

61555		158	
61556		160	
61557		151	
61558		152	
61559		160	
61560		156	
61561		162	
61562		141	
61563		162	
61564		153	
61565		160	
61566		157	
61567		142	
61568	17-Mar	101	
Total		13189	

Empty He target

Run	Date	Events (M)	Comments
61576	17-Mar	71	
61577		26	
61578		62	
61579		73	
61580		70	
61581		67	
61582		67	
61583		64	
61584		65	
61585		39	

Break

61602		68	
61603		67	
61606		69	
61607		43	
61608		71	
61609		70	
61610		67	
61611		26	
Total		1085	

Production on He target

Run	Date	Events (M)	Comments
61621	21-Mar	56	not stable beam
61622		128	
61624		159	
61626		159	
61627		162	

61628		60	
61629		134	
61630		161	
61631		152	
61632		154	
61634		122	
61635		160	
61636		140	
61637		121	
61638		103	
61639		94	
61640		110	
61642		152	
61643		146	
61644		137	
61645		158	
61646		160	
61647		156	
61648		165	
61649		157	
61650		90	
61651		118	
61652		157	
61654		62	
61655		159	
61656		146	
61657		149	
61658		161	
61659		169	
61660		59	
61661		168	
61662		150	
61663		162	
61664		54	

Total 5210

Empty He target

Run	Date	Events (M)	Comments
61668	24-Mar	65	20:00
61669		63	
61670		65	
61671		65	
61672		58	
61673		60	
61686		16	unstable beam

61687		42	
Total		434	

Production on He target

Run	Date	Events (M)	Comments
61690	26-Mar	31	14:20
61691		140	
61692		157	
61694		165	
61695		117	
61697		176	
61698		162	
61699		172	
61700		19	
61701		62	
61702		151	
61703		96	
61704		110	
61705		149	
61706		143	
61707		117	
61709		95	
61710		82	
61711		90	
61712		150	
61713		139	
61715		93	
61717		136	
61718		127	
61719		120	
61720		53	
61722		120	
61723		52	
61727		104	
61728		103	
61729		37	
61731		140	
61732		153	
61734		146	
61735		148	
61736		154	
61737		90	
61738		121	
61739		154	
61740		36	
61741		148	

61742		162	
61743		134	
61744		60	
61745		124	
61746		143	
61747		141	
61748		18	
61749		118	
61750		148	
61751		134	
61752		137	
61753		123	
61754		157	
61755		133	
61756		75	
61757		137	
61758		146	
61759		140	
61760		68	
61763		90	
Total		7146	

Empty He target

Run	Date	Events (M)	Comments
61764	1-Apr	67	21:22
61765		64	
61766		71	
61767		56	
61768		57	
61769		63	
61771		66	
61772		32	
Total		476	

Production on He target

Run	Date	Events (M)	Comments
61774	2-Apr	41	16:42
61775		181	
61777		84	
61778		11	

61779		158	
61780		157	
61781		156	
61782		142	
61783		142	
61785		17	
61786		127	
61788		151	
61789		147	
61790		148	
61791		121	
61792		156	
61793		149	
61794		154	
61795		160	
61796		161	
61797		182	
61798		160	
61799		73	
61800		26	
61802		67	
61803		165	
61804		149	
61805		153	
61806		74	
61807		146	
61808		151	
61809		153	
61810		140	
61811		161	
61812		165	
61813		147	
61814		155	
61815		88	
61816		143	
61817		152	
61818		175	
61821		113	
61823		136	
61825		134	
61826		156	
61827		140	
61828		165	
61829		154	
61830		142	
61831		146	
61832		146	
61833		150	

61834		132	
61835		71	
61836		140	
61837		140	
61838		125	
61839		39	
61840		155	
61841		175	
61842		140	
61843		158	
61844		153	
61845		151	
61846		153	
61847		145	
61848		115	
61849		35	
61850		59	

Total 9056

Empty He Target

Run	Date	Events (M)	Comments
61852	8-Apr	21	18:40
61854		56	
61855		38	
61856		57	
61857		23	
61858		52	
61859		30	
61860		49	
61861		50	
61862		32	
61863		41	Filling target

Total 408

Production on He target

Run	Date	Events (M)	Comments
61866	9-Apr	135	16:00
61867		139	
61868		27	
61874		140	
61875		141	
61876		133	
61877		41	
61878		130	

61879		165	
61880		133	
61881		92	
61882		114	
61883		55	
61884		138	
61885		158	
61887		166	
61888		161	
61889		155	
61890		151	
61891		150	
61892		148	
61893		152	
61894		163	
61895	11-Apr	65	
61905		139	
61906		144	
61908		146	
61909		144	
61910		38	

Total 3663

Production on He target (small current, include FDC at 50 nA)

Run	Date	Events (M)	Comments
61914	12-Apr	32	Include FDC
61915	10:00 AM	35	Include FDC
61916		23	Include FDC
61917		36	Include FDC
61918		10	Include FDC
61930		36	Include FDC
61931		10	Include FDC
61933		27	Include FDC
61934		35	Include FDC
61935		38	Include FDC
61936		42	Include FDC
61937		35	Include FDC
61938		33	Include FDC
61939		38	Include FDC
61947		35	
61950		85	
61951		83	
61952		86	
61953		83	
61954		14	
61955		87	

61956		76	
Total		979	

61540		24	Trigger studies
61542		121	
61543		38	
61545		154	

RUN SUMMARY

	He empty	He target
	885	470
	1085	1257
	434	13189
	476	5210
	408	7146
		9056
		3663
		979
Total (M)	3288	40970

Proposal: Require (30 days on LHe target)

97200
(64800)