

IPstrong v1.1.00 data sets, update 29/9/2020

- Regeneration of e-laser data with 1% beam energy spread
- 10,000 bxs for JETI40, 16.5 GeV $w_0=3$ microns
- 5,000 bxs for JETI40, 16.5 GeV $w_0=50$ microns

Aug 2020 Data Runs, bunch/pulse crossings completed

Experiment Config	$w_0 = 3\mu\text{m}$	$w_0 = 3.5\mu\text{m}$	$w = 0, 4.0\mu\text{m}$	$w_0 = 4.5\mu\text{m}$	$w_0 = 5.0\mu\text{m}$	$w_0 = 8.0\mu\text{m}$	$w_0 = 20.0\mu\text{m}$	$w_0 = 50.0\mu\text{m}$	$w_0 = 100.0\mu\text{m}$
peak SQED ξ	5.12	4.44	3.88	3.45	3.1	1.94	0.78	0.31	0.15
peak SQED χ (16.5 GeV)	0.9	0.79	0.69	0.61	0.55	0.34	0.138	0.055	0.028
JETI40 e-laser 16.5 GeV	10000	1000	1000	1000	1000	1000	500	5000	500
JETI40 e-laser 17.5 GeV	1000	1000	1000	1000	1000	1000			
JETI40 g-laser (coarse) 16.5 GeV	1000	1000	999	1000	1000	1000			
JETI40 g-laser 16.5 GeV	785	789	928	844	872	879			
JETI40 g-laser 17.5 GeV									
JETI40 misalignments									
JETI40 mCP production									
	$w_0 = 3.0\mu\text{m}$	$w_0 = 8.0\mu\text{m}$	$w_0 = 9.0\mu\text{m}$	$w_0 = 10.0\mu\text{m}$	$w_0 = 11.0\mu\text{m}$	$w_0 = 12.0\mu\text{m}$			
peak SQED ξ	16.7	6.27	5.57	5.01	4.56	4.18			
peak SQED χ (16.5 GeV)	2.96	1.11	0.99	0.89	0.81	0.74			
phasell e-laser 16.5 GeV		1000	1000	1000	1000	1000			
phasell e-laser 17.5 GeV		1000	1000	1000	1000	1000			
phasell g-laser 16.5 GeV		408	422	475	373	447			
phasell g-laser 17.5 GeV									
phasell misalignments									
phasell mCP production									

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