

IPstrong v1.1.00 data sets, update 15/9/2020

- Studying misalignments
- For phasell parameters, $w_0 = 3\mu\text{m}$, $\xi = 16.7$ out of range of monte carlo OPPP tabulation. So, increasing tabulation range

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
JET140 e-laser 16.5 GeV	939	951	946	949	938	1000	193	200	200
JET140 e-laser 17.5 GeV	639	1000	1000	1000	1000	500			
JET140 g-laser 16.5 GeV	1000	1000	999	1000	1000	1000			
JET140 g-laser 17.5 GeV									
JET140 misalignments									
JET140 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		997	1000	993	831	814			
phasell e-laser 17.5 GeV		1011	1119	998	1000	1000			
phasell g-laser 16.5 GeV									
phasell g-laser 17.5 GeV									
phasell misalignments									
phasell mCP production									

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