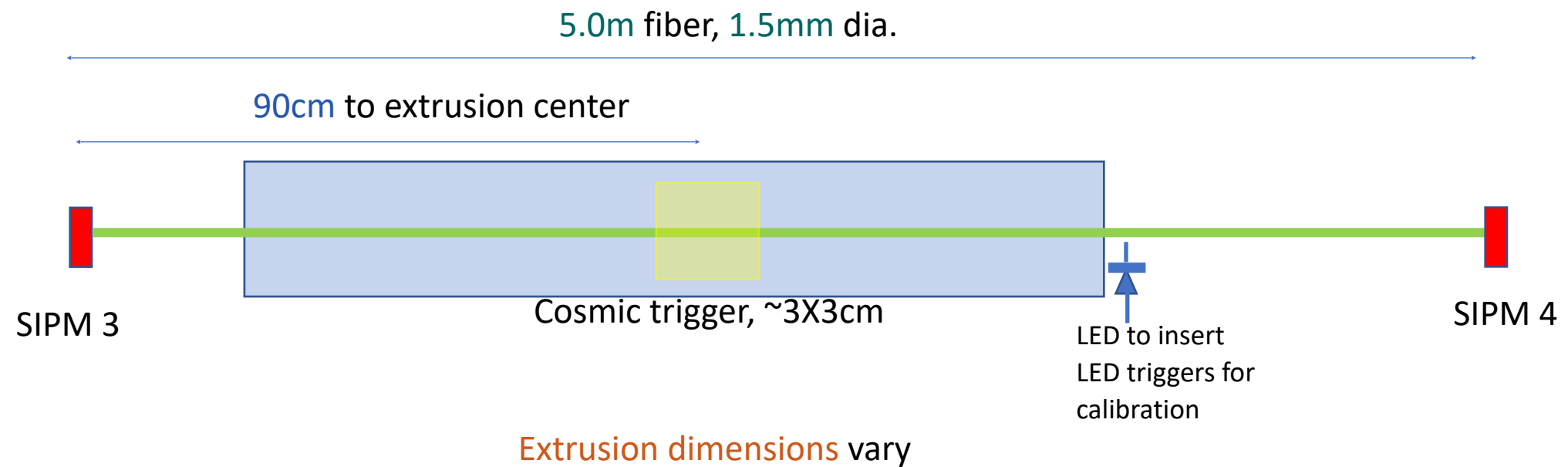


# **Light Yield and Timing Resolution of Extrusions**

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# Setup



Example filename: May\_5\_5by2by20\_one\_hole\_white\_extrusion\_BCF92\_1p5mm\_250cm\_500cm\_long\_newS14160\_5gss

# Results

Fiber Type	Fiber Diameter	Fiber Length	Excitation Point	Events	Avg PE (Ch3)	Avg PE (Ch4)	Tim. Res. (ns)
Mu2e_Kur	1.8 mm	560 cm	40 cm	836	75.4 (1.2)	31.0 (0.6)	0.88 (0.01)
			90 cm	785	62.8 (1.0)	33.1 (0.6)	0.86 (0.01)
			160 cm	2534	50.3 (0.5)	35.7 (0.4)	0.82 (0.00)
			300 cm	872	43.8 (0.7)	41.1 (0.7)	1.01 (0.02)
BCF92	1.5 mm	500 cm	20 cm	703	38.1 (0.6)	6.8 (0.1)	1.06 (0.01)
			90 cm	876	25.2 (0.5)	9.3 (0.2)	0.94 (0.01)
			160 cm	566	20.7 (0.5)	11.4 (0.5)	0.79 (0.01)
			250 cm	807	15.7 (0.3)	11.5 (0.3)	0.97 (0.01)
			480 cm	774	11.4 (0.2)	30.8 (0.5)	0.90 (0.01)
Kuraray	1.5 mm	520 cm	20 cm	2450	57.1 (0.5)	11.7 (0.1)	1.19 (0.01)
			90 cm	468	39.7 (0.9)	13.3 (0.3)	1.33 (0.02)
			160 cm	767	32.9 (0.6)	14.3 (0.3)	1.17 (0.02)
			260 cm	2185	19.0 (0.2)	14.9 (0.2)	1.22 (0.01)
			500 cm	880	18.6 (0.4)	35.3 (0.6)	1.38 (0.02)
1MJ	1.0 mm	310 cm	50 cm	3320	20.6 (0.2)	13.8 (0.2)	0.92 (0.01)
			90 cm	869	19.0 (0.4)	14.9 (0.3)	0.84 (0.01)
			150 cm	626	16.2 (0.4)	16.0 (0.3)	0.78 (0.01)
2MJ	1.0 mm	310 cm	50 cm	781	39.1 (0.6)	25.0 (0.4)	0.70 (0.00)
			150 cm	1622	29.8 (0.4)	31.2 (0.4)	0.66 (0.00)
4MJ	1.0 mm	310 cm	160 cm	2454	22.5 (0.2)	28.1 (0.3)	0.60 (0.00)
6MJ	1.0 mm	310 cm	150 cm	2596	14.3 (0.2)	16.9 (0.2)	0.76 (0.01)
BCF92_Uniplast	1.5 mm	500 cm	250 cm	891	14.1 (0.2)	14.1 (0.2)	0.87 (0.01)