

EGS Simulatiion of Energy Deposition in Water Dumps

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Preliminary for today's discussion

E_beam (GeV)	P_total (kW)	Sigx/sigy at window (mm/mm)	Max. E_dep per inc. e- (MeV/cm ³)	“Inst.” Number Incident (X 10 ¹⁰)	“Inst.” E_dep (joules/gm)	Ratio	Comments
18	880 @ 360pps	1.0/1.0 too small?	8.8	75	13	1	One pulse, 1.6 usec
45	500 @120pps	1.0/1.0 too small?	15.7	55	18	1.3	One pulse, 0.1 usec
250	11,300	2.5/0.25	49	20	20	1.5	10 bunches, 3 usec too small?
500	18,000	1.5/0.51	120	20	49	3.6	10 bunches, 3 usec too small?