







































		Science at SABER
The SAE • Pla • Inv • An • Ma • La	BER white paper includes asma Wakefield Accelera verse Compton Scattering Intense THz Light Source agnetism and Solid State boratory Astrophysics Ex	s science in ation and Beam-Plasma Physics g ce for Surface Chemistry Physics kperiments
	Energy	Up to 30 GeV hominal
	Charge per pulse	3 n $(e \text{ or } e^+ p \text{ pr pulse with full compression; 5 nC})$ without full compression.
	Pulse length at IP	30 µm with 4 % momentum spread; 42 µm with
	Spot size at IP	10 μ m nominal ($\eta = \eta' = 0$)
	Momentum spread	4 % full width with full compression; < 0.5 % full width without compression.
	Drift space available for experimental apparatus	2 m from last quadrupole to focal point. Approximately 23 m from the focal point to the Arc 3 magnets
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