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Energy

- Determined by technology
 - Gradient
 - → Length of accelerator

Luminosity

S Riemann

- High statistic for precision measurements
- → Luminosity as high as possible

Beam polarization

- produce polarized e-, e+
- + precision measurements of these parameters (E, L, P)

DESY Summer Student Lecturs: LC Projects































































































































	ILC	CLIC CLIC	
	500 GeV	500 GeV	3 TeV
Lumi [10 ³⁴ cm ⁻² s ⁻¹]	2	2.3	5.9
Repetition rate [Hz]	5	50	
Bunch separation [ns]	370	0.5	
Beam pulse duration	950µs	177ns	156ns
Beam size [nm] horizontal / vertical	~474 / 6	200 / 2.3	40 / 1.0
Power consumption [MW]	230	240	560











