

Instructions:

Please enter information in each cell about the beam required at the target with as much detail as possible, comments are helpful.

Columns are listed for experiments that will need both electron and positron beams, it is also helpful to note how similar they must be; use "n/a" if electrons not needed.

If an important parameter is not listed please add additional column or comment.

Please consider if 60Hz pulsed beam (non-CW) is acceptable as it allows consideration to deliver pulsed beams where diagnostics may be synchronized to higher peak current. For example, a 1.67ms pulse @ 60Hz is a 10% duty factor. If not, please enter 100% or CW for the entry.

LOI		Average Current		Duty Factor		Polarization		Beam Energy		Energy Spread		Beam Size	
Title	Contact	Positron	Electron	Positron	Electron	Positron	Electron	Positron	Electron	Positron	Electron	Positron	Electron
LOI-1 : TPE (e+/e- cross section)	Jan/Volker												
LOI-2 : TPE (polarization observable)	Axel												
LOI-3 : p-DVCS (D-term, graviton)	FX/Latifa												
LOI-4 : n-DVCS (Real part of)	Silvia												
LOI-5 : p-DVCS (gluon content)	Maxime/Carlos												
LOI-6 : Dark matter search	Marco/Luca	100 nA	n/a	100%*	n/a	n/a	n/a	11 GeV	n/a	<1%**	n/a	<1 mm	n/a

* Since pile-up is a critical problem for this kind of experiment, a continuous beam would be a more desirable option.

** Another critical beam parameter to compute the A' missing mass is angular dispersion: $\sigma_{\theta} < 0.1 \text{ mrad}$