Table 1. Injection Strategies

Concept	*Theory/Sim Status*	*Experimental Status*
Snowplow accel. Of protons in solid targets (moving double layer)	Sim's show GeV beam Theory explanation needed	Prospects for 300-600TW/30-60fs experiments at LOA, RAL, UM
Classical Photocathode	Yes	Plans at Eindhoven (2.5+MeV, 100fs), UCLA (16 MeV w/ mag. Compression), Orsay (but ps not fs)
Adiabatic Buncher	Modeled except for self-wakes in plasma	
LILAC/Colliding Pulses	Yes	Prelim from UM; UCLA prelim null result
Plasma Klystron (short plasma buncher plus drift space)	Yes	Possible at UCLA
SMLWFA as first stage (Plasma Gun)	-	Plans at LOA, RAL, LBNL
IFEL Buncher	Yes, for test particles	Possible at UCLA, LBNL; POP expt at 10μ at BNL