

# Beam dynamics issues (global cc)

	Simulation	KEKB	SPS?	LHC w/o cc	Tevatron
Optics preparation	seems ok	-	-	-	-
▲ b-b limit w/ x-angle	OK	~0.06	OK	-	OK
▲ Ramping with beam	OK (with b-b?)	○	●	-	-
◎ Crab phase noise	Done?	OK	?	-	-
Dynamics aperture	OK	OK	●	-	-
DA with long-range BB	OK	-	●	-	-
S-B resonances	OK	OK	●	-	-
Physical aperture	+ 0.5 $\sigma$	-	●	-	-
Beam collimation	Maybe OK	-	●	-	-
Coherent oscillation	To be done	solved	?	-	-
Luminosity leveling	?	○	?	-	-
AC dipole	OK 800MHz?	-	?	○	?
Head-tail osci. like crabbing	?	-	?	○	?

○: can be done, ●: can be done if cc is brought