

Turn-around after DR?

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Conclusion: YES.

Unless stable extraction from DR is guaranteed.

Required Relative Kicker stability: $\sim 7\text{E-}4$ (TESLA-TDR).

Lengths of additional beam line and tunnel depend on DR layout. (see last two slides.)

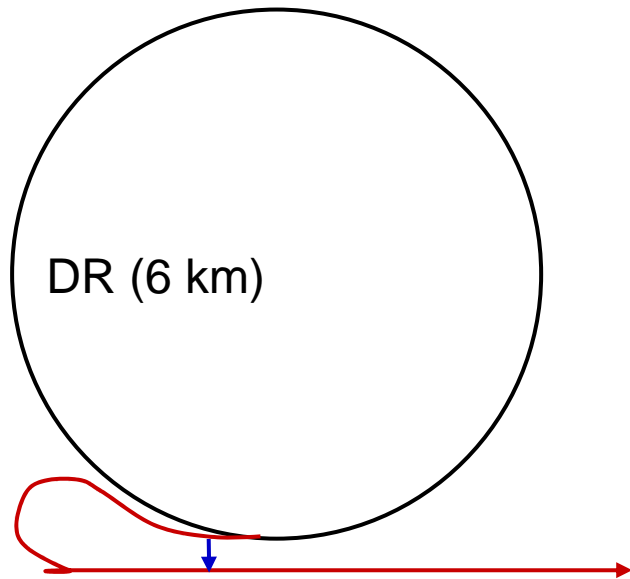
Input from WG1

- It will help to reduce beam jitter by feed-forward
- In particular bunch-to-bunch jitter
- Strongly recommended

Additional Cost for turn-around

DR Layout		Tunnel	Beam Line
Downstream of Linac		0	0
Dogbone, Upstream		0	~1 km
Circular (6 km), Upstream	A	~1km	~1 km
	B	0	~3.5 km ~DR length/2 + 0.5 km

Case A



Case B

