

PROTON SOURCE

- For 4 TeV c-of-m and $\mathcal{L} = 10^{35} \text{ cm}^{-2}\text{s}^{-1}$

	30GeV	10GeV	
Rep.Rate	15	30	Hz
Protons	10^{14}	10^{14}	/pulse
Bunches	4	2	at target
Protons	2.5×10^{13}	5×10^{13}	/bunch

One possible proton driver consists of:

600 MeV Linac (BNL SNS)
 3.6 GeV Booster (BNL SNS lower f)
 30 GeV Driver (JHP & KAON)

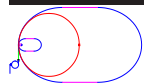
- For 0.5 TeV c-of-m and $\mathcal{L} = 10^{33} \text{ cm}^{-2}\text{s}^{-1}$

AGS	30 GeV	10^{14}	2.5Hz
FNAL	8 GeV	3×10^{13}	15Hz

Important Issues in a Proton Driver*

- Production of short bunches (1 ns)
- Stability

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$\mu^+ \mu^-$ COLLIDER