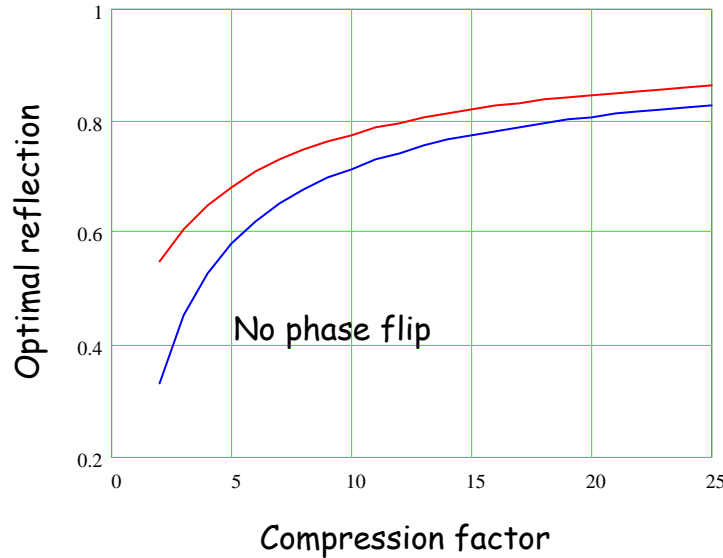


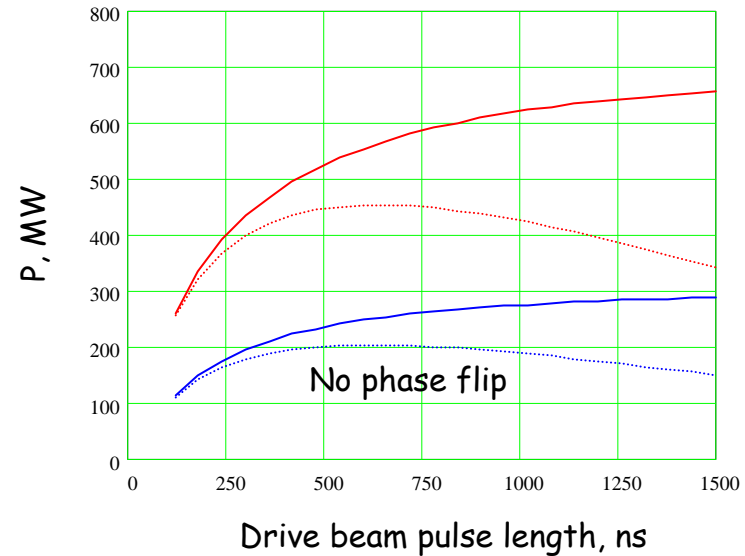
30 GHz CTF3 RF pulse compression using SLED II system

CLIC

Round trip losses 2%



Compressed power (100 MW input).
Output pulse 60 ns



Discussion:

- With phase flip, 30 MW, 750 ns pulse is enough to produce 180 MW power in 60 ns. Which corresponds to about 2.7 A in a drive beam.
- Without phase flip for the same pulses one would need 68 MW and 4.1 A.

- Concerning stand along 30 GHz RF power source, amplification factor of 6 looks like a reasonable limit. So we would like to have a device capable to produce 30 MW in 1.0 - 1.5 μsec

Multi-stage pulse compression using SLED II system

CLIC

Example: $T_{in} = 1080$ ns

