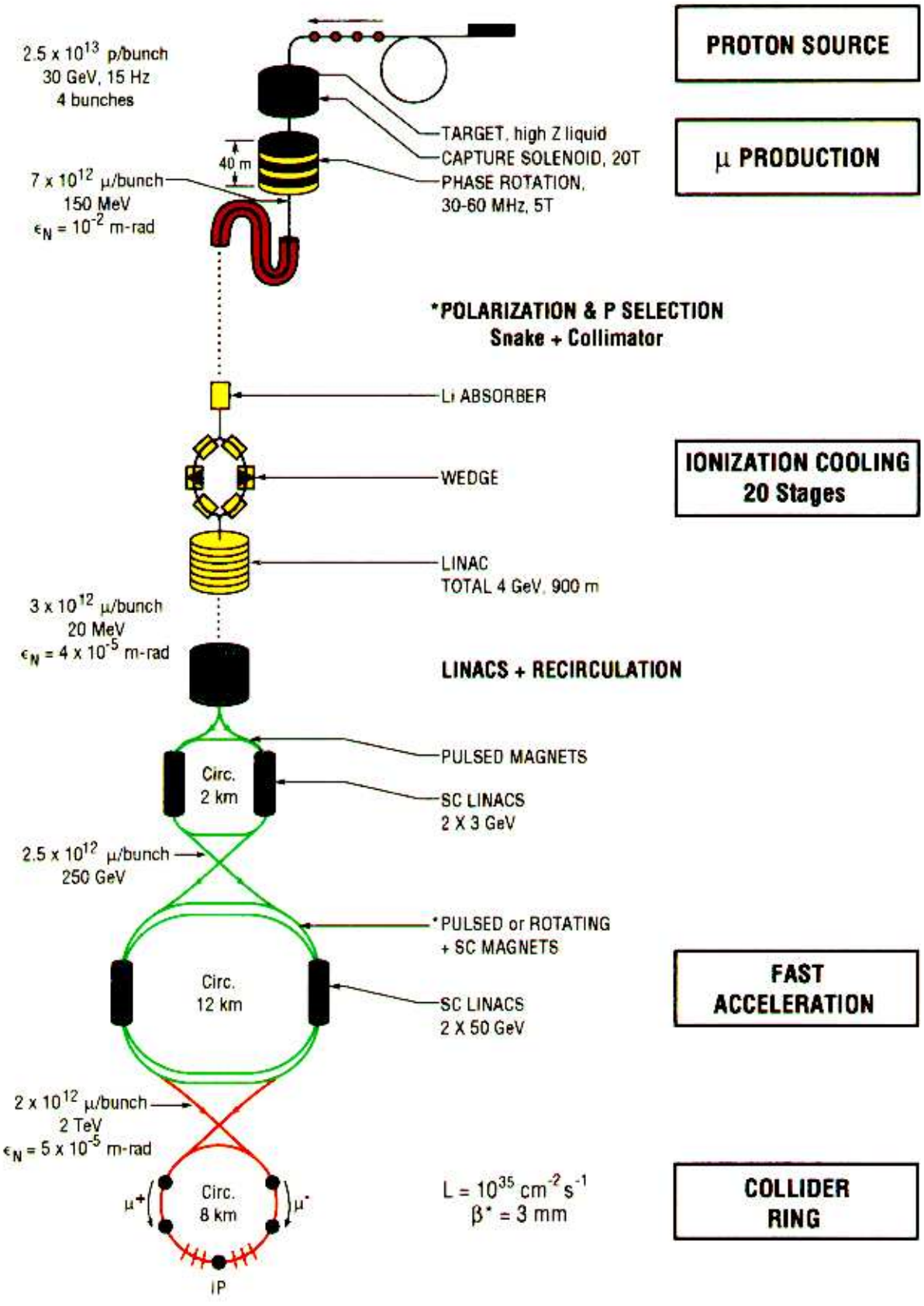
2.5 x 10^13 p/bunch
30 GeV, 15 Hz
4 bunches
PROTON SOURCE
TARGET, high Z liquid
CAPTURE SOLENOID, 20T
PHASE ROTATION,
30-60 MHz, 5T
40 m
7 x 10^12 μ/bunch
150 MeV
ε_N = 10^-2 m-rad
μ PRODUCTION
*POLARIZATION & P SELECTION
Snake + Collimator
Li ABSORBER
WEDGE
IONIZATION COOLING
20 Stages
LINAC
TOTAL 4 GeV, 900 m
3 x 10^12 μ/bunch
20 MeV
ε_N = 4 x 10^-5 m-rad
LINACS + RECIRCULATION
PULSED MAGNETS
Circ.
2 km
SC LINACS
2 X 3 GeV
2.5 x 10^12 μ/bunch
250 GeV
*PULSED or ROTATING
+ SC MAGNETS
Circ.
12 km
SC LINACS
2 X 50 GeV
FAST
ACCELERATION
2 x 10^12 μ/bunch
2 TeV
ε_N = 5 x 10^-5 m-rad
μ+
Circ.
8 km
μ-
L = 10^35 cm^-2 s^-1
β* = 3 mm
COLLIDER
RING
IP