Phase Rotation

	len m	rad	B T	f MHz	grad MV/m	n/n	σ_{ct} m	dp/p %	emit mm
target	.45	.075	20			.66	.3	100	-
match	3	.2	2						
rf	3	.3	1.25	60	8				
rf	33	.3	1.25	30	5				
rf	7.5	.3	1.25	45	7	.35	1.8	15	20
cool 1	3.5	.3	1.25			.33	1.8	15	11
drift	170	.37	.6			.28			
Ind Lin	56	.25	1.25		1	.28	20	5	10
Selected						.2	13	3	9

Polarization = .48 (peak value of .65 for 10%)

dp/p 2 %

Bunching (not Simulated)

freq	175 MHz
λ	1.7 m
bunches	40
σ_z	17 cm
rms dp/p	6 %
emit	9 mm

Cooling

freq	175 MHz
λ	1.7 m
B	2 T
Grad	15 MV/m
Cell	5 m
H2	.8m
cells	16
length	80 m
σ_z	20 cm
rms dp/p	6$\rightarrow$12 %
emit	9 $\rightarrow$3 mm