

# Phase advances across insertions

---

	DMU_X B1	DMU_Y B1	DMU_X B2	DMU_Y B2
arcs	44.104000	40.689000	44.104000	40.689001
IR1	2.618000	2.644000	2.618000	2.644000
IR2	3.067793	2.874878	2.986376	2.756381
IR3	2.260904	1.905369	2.260202	1.989917
IR4	1.963254	1.875133	2.129998	2.021720
IR5	2.618000	2.644000	2.618000	2.644000
IR6	2.015000	1.780000	2.015000	1.780000
IR7	2.450049	1.923620	2.489424	2.002981
IR8	3.183000	2.974000	3.059000	2.782000
tune	64.280000	59.310000	64.280000	59.310000

---

minimum N1	V6.500 - 11 m at IPI/5			proposed V6.501		
18.11.2007	D	F	Q6F	D	F	Q6F

---

**Beam 1**

IR1	6.59	6.99		6.77	7.01	
IR2	6.54	6.49	6.75	6.64	6.93	6.75
IR3	6.73	6.50	5.96	6.70	6.52	5.96
IR4	6.70	7.07		6.71	7.00	
IR5	6.63	6.97		6.69	7.00	
IR6	6.75	6.92				
IR7	6.52	6.80		6.65	7.16	
IR8	6.79	6.74	6.81	6.77	7.13	6.93

**Beam 2**

IR1	6.68	7.13				
IR2	6.63	6.90		6.72	6.93	
IR3	6.34	6.41	5.71	6.62	6.43	5.71
IR4	6.74	7.16		6.71	7.16	
IR5	6.70	7.04				
IR6	6.71	6.95				
IR7	6.62	7.15		6.80	7.15	
IR8	6.70	6.94		6.70	7.12	

minimum NI	V6.500 – IR3 detuned			V6.501 - IR3 detuned		
18.11.2007	D	F	Q6F	D	F	Q6F

---

### Beam 1

IR1	6.59	6.99		6.77	7.01	
IR2	6.54	6.49	6.75	6.64	6.93	6.75
IR3	6.57	6.99		6.70	7.00	
IR4	6.70	7.07		6.71	7.00	
IR5	6.63	6.97		6.69	7.00	
IR6	6.75	6.92				
IR7	6.52	6.80		6.65	7.16	
IR8	6.79	6.74	6.81	6.77	7.13	6.93

### Beam 2

IR1	6.68	7.13				
IR2	6.63	6.90		6.72	6.93	
IR3	6.71	7.09	6.72	6.73	7.00	
IR4	6.74	7.16		6.71	7.16	
IR5	6.70	7.04				
IR6	6.71	6.95				
IR7	6.62	7.15		6.80	7.15	
IR8	6.70	6.94		6.70	7.12	