RF STATION & CAVITY PARAMETER TABLE			HEINZ SCHWARZ	3/10/97	
OP. PARA for PS2			U. Wienands	29-Jly-10	Initial set for PS2
			PS2 inj	**PS2 ramp**	**PS2 etr**
Ring Energy	E	GeV	**4**	**10**	**50**
Ring Circumference	C	m	**1346.4**	**1346.4**	**1346.4**
Harmonic number	h		**180**	**180**	**180**
FREQUENCY	fo	MHz	39.38	39.96	40.10
RF VOLTAGE/RING	V	MV	**0.65**	**0.45**	**1.50**
Acceleration /TURN/RING	Vl	MV	0.00	0.41	0.00
NUMBER OF LEB-type CAVITIES	n		12	12	12
NUMBER OF CAVITIES / Tetrode	m		1	1	1
NUMBER OF IDLING STATIONS	x		0	0	0
BEAM CURRENT	Io	A	2.50	2.50	2.50
SHUNT IMPEDANCE / CAVITY (R/Q=37Ω)	Zo	MΩ	0.19	0.19	0.19
SHUNT IMPEDANCE ACCEL NOTATION / CAVITY	Ra	MΩ	0.4	0.4	0.4
GAP VOLTAGE / CAVITY	Vc	kV	54.2	37.5	125.0
CAVITY WALL POWER	Pc	kW	**7.9**	**3.8**	**42.2**
Acceleration POWER / CAVITY	Ps	kW	0.0	86.3	0.0
HOM POWER / CAVITY	Ph	kW	0.0	0.0	0.0
POWER FOR IDLING CAVITIES / CAVITY	Pi	kW	0.0	0.0	0.0
BEAM POWER / CAVITY	Pb	kW	0.0	86.3	0.0
TOTAL POWER / CAVITY	Ptotc	kW	7.9	90.1	42.2
FORWARD POWER / CAVITY	Pfwd	kW	16.8	135.7	89.3
EQUIVALENT WINDOW POWER (E-field)	Pw	kW	50.0	23.9	266.0
EQUIVALENT WINDOW POWER (H-field)	Pw	kW	1.3	338.7	6.7
ENERGY LOSS / TURN / CAVITY	Va	kV	0.0	34.5	0.0
OPTIMUM COUPLING FACTOR BETA=1+Pb/Pc	β		1.0	23.7	1.0
ACTUAL BETA	β		6.3	6.3	6.3
SYNCHRONOUS PHASE ANGLE	Φ	degrees	90.0	23.1	90.0
DETUNING ANGLE	Ψ	degrees	-66.9	-52.9	-45.4
CHANGE IN RESONANT FREQUENCY	f	kHz	-67.2	-38.6	-29.7
UNLOADED Qo	Qo		5000	5000	5000
LOADED Q	Ql		685	685	685
GENERATOR POWER / CAVITY	Pg	kW	16.8	135.7	89.3
GENERATOR INDUCED VOLTAGE at RESONANCE / CAV	Vgr	kV	54	154	125
GENERATOR INDUCED VOLTAGE / CAVITY	Vg	kV	21	93	88
BEAM INDUCED VOLTAGE at RESONANCE / CAVITY	Vbr	kV	127	127	127
BEAM INDUCED VOLTAGE / CAVITY	Vb	kV	50	76	89
BEAM INDUCED POWER at RESONANCE (CAVITY)	Pc'	kW	43	43	43
BEAM INDUCED POWER at RESONANCE (EMITTED)	Pe	kW	273	273	273
TOTAL BEAM INDUCED POWER at RESONANCE / CAV.	P	kW	317	317	317
GENERATOR CURRENT / CAVITY	Ig	A	2.14	6.08	4.93
BEAM CURRENT at fo	Ib	A	5.00	5.00	5.00
BETA with BEAM	β		6.3	0.3	6.3
REFLECTED POWER / CAVITY	Pr	kW	8.8	45.6	47.1
REFLECTED POWER / KLYSTRON	Prtot	kW	8.8	45.6	47.1
POWER LOSS IN WAVEGUIDE	Pwg	kW	0.0	0.0	0.0
GENERATOR POWER / CAVITY	Pgtot	kW	16.8	135.7	89.3
Tetrode POWER	Pkly	kW	**16.8**	**135.7**	**89.3**

DRAFT!