SIMAC Labs

SIMAC Lab 1:

-Beam Loading
-Energy Correction with Bending Magnet
-Flattening Filters
-Beam Steering Part 1
-Beam Steering Part 2
-Adjusting the RF Driver
-Adjusting the Klystron Pulse Voltage
-Beam Finding

SIMAC Lab 2:

-The PFN charging cycle
-The de spiking circuit
-Magnetron output power
-RF reflected pulse
-Electron Gun
-Beam loading for travelling wave accelerator with diode gun
-Beam loading for standing wave accelerator with triode gun
-RF feedback phase adjustment for travelling wave accelerator
-Steering for 270-degree bend magnet
-Steering for slalom style bending magnet
-270 degree bending magnet
-Slalom style bending magnet
-Klystron pulse voltage
-Electron beam angle of incidence on target
-Effect of feedback loop on travelling wave load line
-Effect of energy switch on load line for a standing wave accelerator

SIMAC Procedures

Procedure 1: Gun HV Procedures

Procedure 2: Elekta Beam Energy Procedures

Procedure 3: Varian Beam Energy Procedures

Procedure 4: Elekta Beam Energy Procedures 2

Procedure 5: Varian Beam Energy Procedures 2

Procedure 6: Flattening Filter Procedures

Procedure 7: Klystron Saturation Procedures

Procedure 8: Magnetron Impedance Procedures

Procedure 9: deQ Procedures

Procedure 10: Field Size & SSD Procedures

Procedure 11: Elekta Beam Steering Procedures

Procedure 12: Varian Beam Steering Procedures

Procedure 13: Trigger Procedures