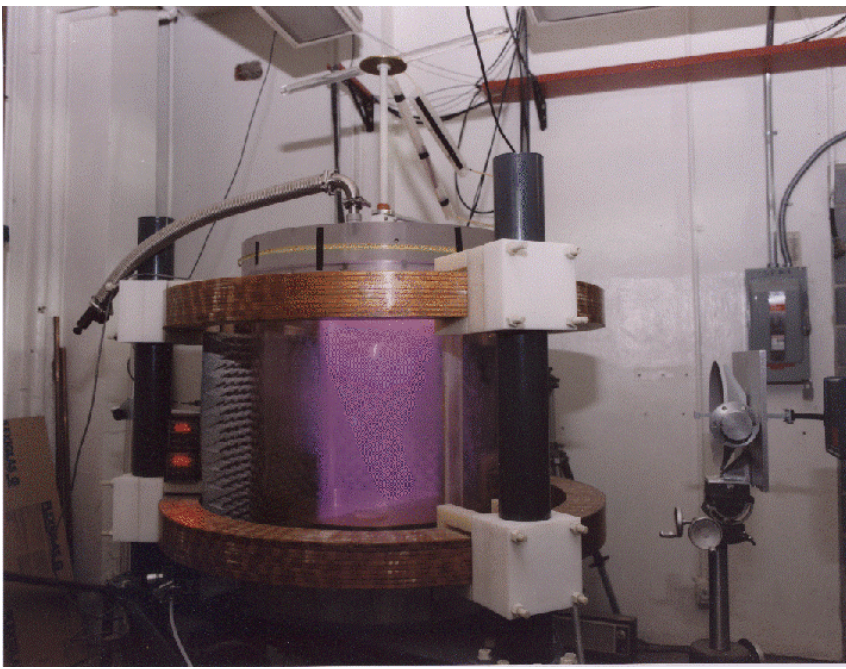
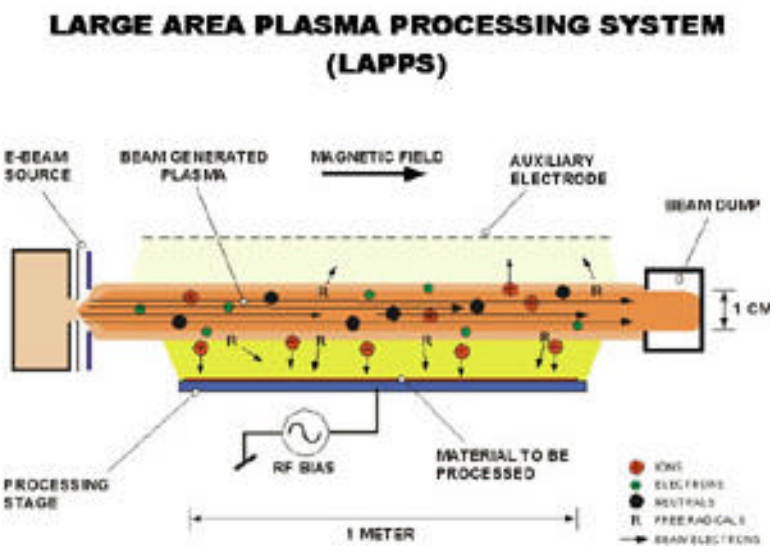


LARGE AREA PLASMA PROCESSING SYSTEM (LAPPS)-AGILE MIRROR (NAVAL RESEARCH LAB)



A low pressure (10s - 100s mTorr) chamber is placed in a solenoid to produce an axial magnetic field. A low plasma is produced by a cold-cathode electron beam aligned with the magnetic field. A planar, low temperature plasma is produced.

Top left - Schematic of LAPPS system

Top right: LAPPS apparatus

Bottom left: Earlier version of LAPPS used as an agile microwave mirror. Agile mirror is shown in its low pressure chamber with the magnetic field coils. The 50 cm x 50 cm x 1 cm plasma distribution has a density sufficient to reflect 10 GHz microwaves fed by the antenna on the right.