NRL’s Space Physics Simulation Chamber recreates the unusual space plasma environment for laboratory studies of phenomena generated in the aftermath of high-altitude nuclear detonations and extreme space weather.

NRL investigates novel radiation sources using theory, simulation, and a host of experimental pulsed power facilities to enhance DOD system survivability against nuclear weapon effects.

NRL’s early laser development work for shock studies related to nuclear weapons effects and inertial confinement fusion found other applications for laser weapons and advanced particle accelerators.

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