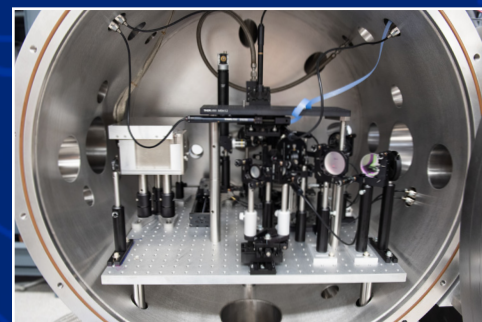




The General Atomics Laboratory for Developing Rep-rated Instrumentation and Experiments with Lasers (GALADRIEL)

- TW-class, ultra-short pulse Ti:sapphire laser
- ~ 25mJ of 800nm light in ~25fs at rep-rates of up to 10Hz
- Cylindrical target chamber with a vibrationally isolated 2'x2' bread board
- Automated pressure controller and pulsed valve for gas jets of He, N₂, and Ar of up to 800psi
- Orthogonal long-range microscopes for precision target alignment



Vacuum Chamber

Plasma Diagnostics Instrumentation

- 4-channel hard x-ray CVD diamond diodes
- Angularly resolved electron spectrometer (~0.15-4MeV)
- Electron-beam profiler (filtered stack of scintillating fiber arrays)
- Probe beam (400nm) with 300ps scanning range (Schlieren, wavefront, etc.)

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