

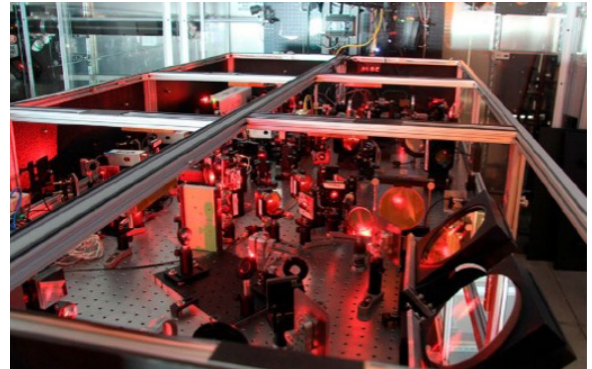
ADVANCED FUSION DIAGNOSTICS

OPTICAL | RF & MICROWAVE | PARTICLE MODELING AND MEASUREMENTS

End-to-end diagnostic systems for tokamaks, stellarators, and alternative fusion platforms.
On schedule delivery of publication-grade diagnostics built to program specifications.

OPTICAL

- 2-color & dispersion interferometry / polarimetry
- Thomson scattering
- Fast Ion D- α (FIDA)
- Thermal & optical imaging
- Visible & UV spectroscopy

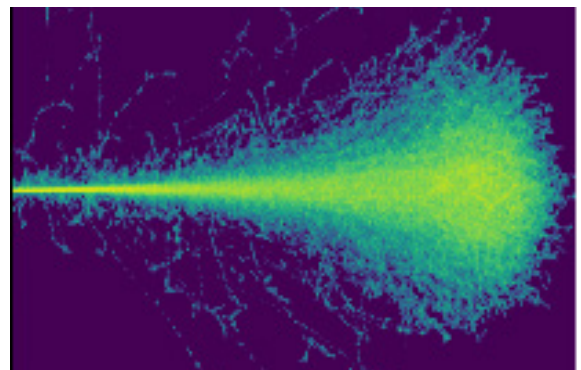


RF & MICROWAVE

- Reflectometry & interferometry (MHz to >100 GHz)
- Electron Cyclotron Emission (ECE)
- Ion Cyclotron Emission (ICE)

PARTICLE MODELING AND MEASUREMENTS

- Neutron spectrometer
- Neutron flux monitor
- Imaging Neutral Particle Analyzer (INPA)
- Gamma-ray imager



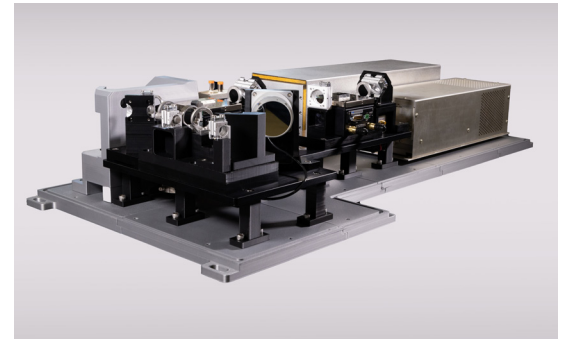
NEW — TURNKEY DIAGNOSTICS

Compact Heterodyne Dispersion Interferometer (CHDI)

A turnkey, electron-density interferometer based on GA-developed technology. Designed for installation and operation by engineering teams without specialized optics expertise.

Enables rapid deployment of high-performance diagnostics across current and next-generation fusion devices, with top tier phase noise and MHz-level bandwidth.

Custom configurations available.



DIAGNOSTICS & NEUTRONICS SOLUTIONS

- System design & feasibility
- Optical system specification and integration
- Data acquisition (DAQ) and controls integration
- On-site installation and commissioning
- Radiation modeling & analysis

FACILITIES & TECHNICAL INFRASTRUCTURE

- Class IV laser laboratories
- TW-class ultrashort-pulse laser
- RF metrology suite
- Anechoic chamber
- Engineering & optical modeling

General Atomics delivers proven performance in fusion environments with reliable off-the-shelf products and custom solutions designed, built, and delivered to meet your program needs.



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