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**Comparison of Edge Fluctuation Measurements from
PCI, BES, Langmuir Probes, and Reflectometry on DIII-D¹**

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Imaging, Beam Emission Spectroscopy, reflectometry, and Langmuir
probe diagnostics on DIII-D provide edge density fluctuation measure-
ments that cover different but complementary regions of wave number
space. Comparison of data collected from different diagnostics at the
same time and location provides information about the k -space structure
of the turbulence not available from a single diagnostic and thus better
illuminates the underlying physics. Comparisons suggest that edge tur-
bulence is isotropic in k_{\perp} in high power L-mode plasmas but anisotropic
in H-mode. Similar comparisons from a density scan at low power show
that the power spectrum has a more complicated structure. Multiple
measurement locations are used to extend the comparison across the
LCFS.

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