

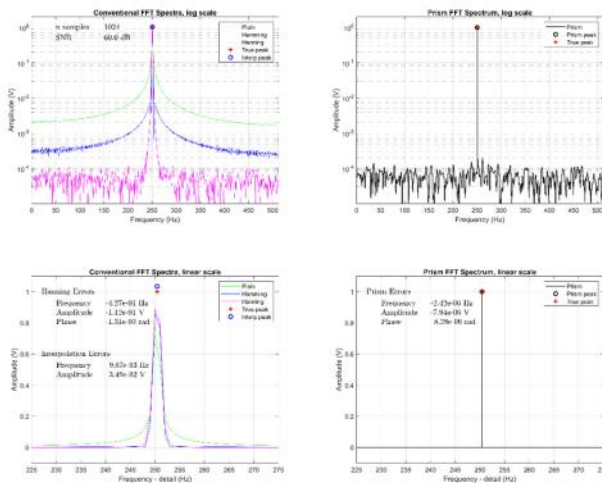


**13114, 15684,
18932, 18933,
23675**

Ultra-precise Fast Fourier Transformation using Precise Repeat Integral Signal Monitor signal processing

The Precise Repeat Integral Signal Monitor (PRISM) FFT technique uses four windowing functions to calculate the frequency, phase and amplitude of each peak, while suppressing spectral noise. In the example, the PRISM FFT calculates peak parameters with > 1000x smaller errors than the conventional FFT techniques.

Applications: Signal processing, spectral analysis, FFT, frequency, phase and amplitude measurement



Features

Superb accuracy of peak frequency, phase and amplitude calculations

Minimises spectral leakage

Benefits

Unparalleled resolution and accuracy, even at low sampling rates

High dynamic range; detects low amplitude peaks

Features	Benefits
Peak accuracy a function of local signal-to-noise ratio	Robust for high-noise applications
Low computational overhead	Superb accuracy for low-noise applications
	Suitable for real-time measurements

Patented and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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