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Measuring the Jitter of Ring Oscillators by means of Information Theory Quantifiers

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Highlights

- Given their usefulness as RNGs and PLLs, ROs are building blocks of digital circuits.
- Jitter is unavoidable in ROs and consequently it needs to be characterized.
- Jitter measures using Information Theory quantifiers (ITQ) are proposed.
- Two of these ITQ'S are robust and may be implemented experimentally.
- We encountered that a dual entropy plane allows a visual comparison of results.

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