

105th ARFTG Microwave Measurement Conference

Challenges in Microwave Measurements under Cryogenic Conditions

San Francisco | June 20, 2025
Co-located with **IMS-2025**

» Call for Papers | Abstract Due: February 24th, 2025

Suggested topics include, but are not limited to:

- Measurement & calibration to support quantum computing circuits/systems
- Noise measurement under cryogenic conditions
- Free space calibration and measurements in confined cryogenic environments
- Calibrations and measurements on devices and systems in space
- Other innovative measurements in quantum technologies

Outstanding exhibition and corporate sponsorship opportunities:

Please contact our Exhibits Chair Joel Dunsmore: exhibits@arftg.org or our Sponsors Chair Choong Li: sponsorship@arftg.org directly for further information.

CALL FOR PAPERS

The theme for the 105th ARFTG Conference (co-located with IMS-2025) is “Challenges in Microwave Measurements under Cryogenic Conditions”. We encourage the submission of original papers demonstrating innovative measurement approaches to support the development of quantum computing systems and other applications operating under cryogenic temperatures. Contributions exploring all areas of RF, microwave, and sub-THz measurements are welcome. Suggested topics include, but are not limited to:

- Measurement & calibration to support quantum computing circuits/systems
- Noise measurement under cryogenic conditions
- Free space calibration and measurements in confined cryogenic environments
- Calibrations and measurements on devices and systems in space
- Other innovative measurements in quantum technologies

Topics always of interest include:

- RF/digital mixed-signal measurement and calibration
- On-wafer calibration and measurements
- Characterization of material properties
- Other recent developments in metrology incl. measurement uncertainty

DEADLINES

February 24, 2025	Abstract Submission Due
March 21, 2025	Paper acceptance and classification notification
April 18, 2025	Publication-ready paper is due in PDF format

INSTRUCTIONS FOR AUTHORS

Authors are strongly encouraged to use the template on that webpage to prepare both initial paper and final paper submissions.

We request that authors submit an initial paper (4 pages or less) with supporting figures of both experimental setups and measurement results to enable evaluation with respect to the interests of the participants and the novelty of the work.

Contributed papers will be presented as 20-minute talks or in an interactive poster session. Final papers will be published as part of the ARFTG proceedings in IEEE Xplore, provided it has been presented at the conference.

More details can be found on the ARFTG website:

<https://arftg.org/author-instruction>



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