Q-WAVE Newsletter

The newsletter from the EMRP project SIB59 Q-WAVE A quantum standard for sampled electrical measurements



Issue 1 June 2014

Q-WAVE: THE PROJECT

Quantum voltage standards based on the Josephson effect currently ensure the traceability to DC and low-frequency AC voltages. The aim of Q-WAVE is to enlarge the frequency range of quantum voltage standards and to provide direct and efficient traceability for precision devices up to 10 MHz. These significant improvements of high-precision voltage measurements are required amongst others by the rapid progress of semiconductor industry offering analogue-to-digital converters (ADC) and digital-to-analogue converters (DAC) with higher and higher sampling rates and accuracy.

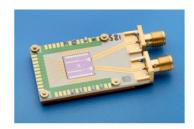






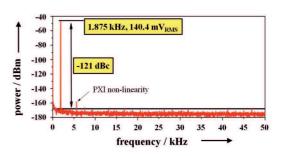
The EMRP is jointly funded by the EMRP participating countries within EURAMET and the European Union

Now, after one project year, we would like to send you a first update related to the project and to inform you on first achievements and current developments.



FIRST ACHIEVEMENTS

- Josephson arrays developed
- Photodiodes selected
- Sampling methods investigated
- Error sources identified



JOIN THE STAKEHOLDER COMMITTEE

Being a member of the stakeholder committee implies only benefits for you and does not involve any obligation. You will keep informed about the developments in the project. More importantly, you can directly provide your input to the project through the committee. Interested? **EMAIL US!**Not on the mailing list for the newsletter? **EMAIL US!**

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CONFERENCE

We will present the project Q-WAVE at the Conference on Precision Electromagnetic Measurements, CPEM 2014 in Rio der Janeiro, Brazil. Visit our poster on Wednesday, 27 August 2014 from 16:00 - 18:00 and join us for discussions (*Poster: We-P313*)!

At CPEM, most project partners will additionally present their results in detail.

MEET & GREET at CPEM 2014



NEXT MEETING

On 2 - 4 December 2014, we will hold our mid-term meeting in Teddington, UK. Let us know if you are interested in attending the public part!

WEBSITE & E-MAIL

More information: www.ptb.de/emrp/qwave.html johannes.kohlmann@ptb.de























