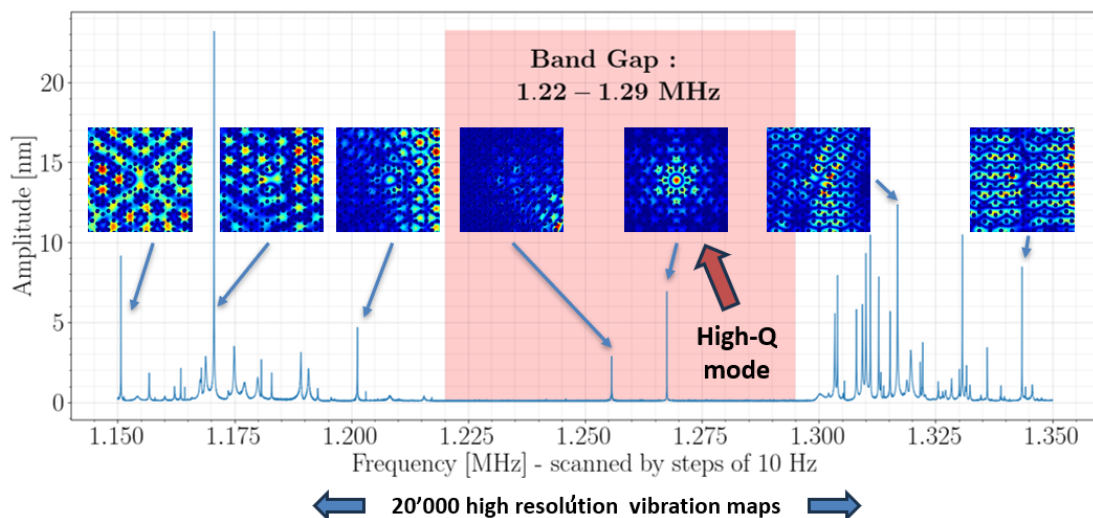


DHM®: High-Q MEMS analysis

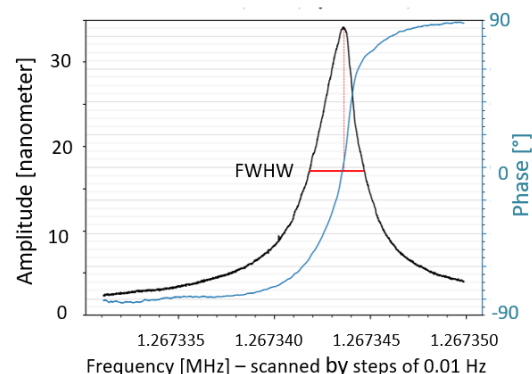
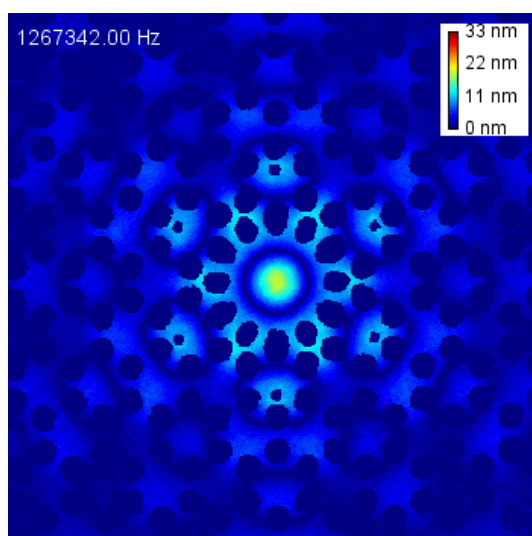
Our **NEW** High-Q stroboscopic module enables MEMS frequency response to be analyzed with a resolution of **1 ppb** (part per billion), and characterize resonances with **Q-factors of up to 10^9**

Phononic crystal structure frequency response



Sample courtesy: Prof. Dr. Albert Schliesser and Dr. Eric Langman, Copenhagen University Denmark, and Qfactory ApS

High-Q mode scanned by steps of 0.01 Hz ...



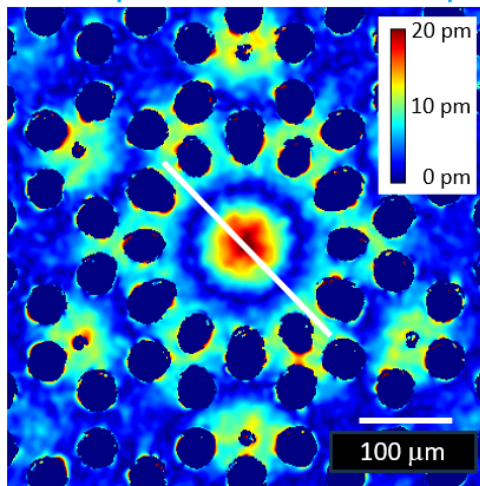
Resonance:

- Frequency: 1'267'343.61 Hz
- FWHM: 2.85 Hz
- Q-factor: **444'681**

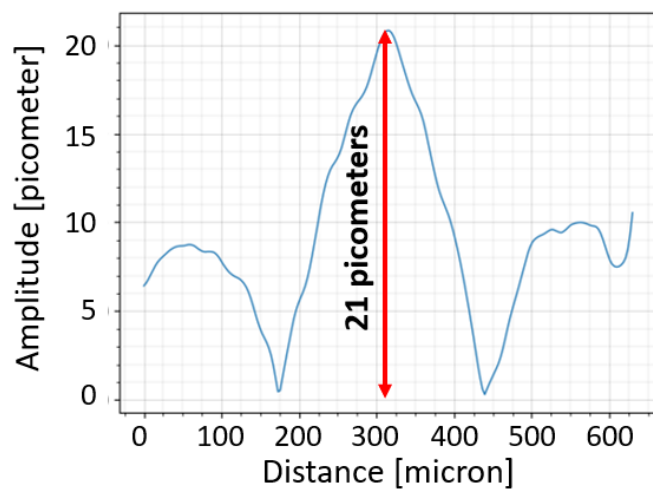
Excitation: piezo, sinus, 2V

... with **PICOMETERS** out-of-plane resolution

Amplitude Vibration Map



Profile cut



Excitation voltage reduced from 2V to 0.01 V

[Learn more about this application](#)

Specifications

- **4D optical profilometry**
 - from static to 25 MHz
 - frequency step resolution: 1 ppb
- **Resolution (frequency independent):**
 - Topography: interferometric
 - In-plane vibration: 1 nm
 - Out-of-plane vibration resolution: 1 pm
 - Digital: 1024x1024 pixels
- **Environments**
 - in liquids
 - water, physiological solution, chemical etchants, ...
 - in enclosures through optical windows
 - microfluidic devices, vacuum, gaz, and environmental chambers
 - from cryogenic to high temperatures
- **Compatibility of the new stroboscopic module**
 - Any new DHM
 - Most of current installed DHMs

[More specifications](#)

OneTreePlanted

Join our DHM users' forest of more than **9'000 trees!**

For any DHM® purchase based on a remote live-demo, Lyncée commits to [plant trees](#) through the non-profit organization [OneTreePlanted](#)

**Send us a sample and
book a remote demo**



ONETREEPLANTED



High-precision scientific equipment.
Proudly manufactured by us in Switzerland.

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