

## FM 50: Lunch Talk: Awards and Challenges

Time: Wednesday 13:15–13:55

Location: Audi Max

**Lunch Talk** FM 50.1 Wed 13:15 Audi Max  
**ZEISS Quantum Sensing & Imaging Challenge** — ●MICHAEL  
 TOTZECK — Carl Zeiss AG, Oberkochen, Germany

Sensing and imaging are key technologies in research and industry with a continuous quest for better performance. Using quantum technologies of the second kind, i.e. based on the ability to control quantum states of individual or coupled systems, should be the perfect way to achieve significant performance improvements. However, although quantum technologies are getting more and more mature in the lab, industrial applications are still missing, not to mention actual products. We know this gap. It is called the “valley of death”.

Let’s bridge the gap between academic research and industrial applications together.

Join the ZEISS Quantum Sensing & Imaging Challenge!

The rules of this Challenge are simple: We present you current problems of high relevance in the areas of medical technology, microscopy, and industrial metrology.

You show us how these problems can be solved by using quantum

technologies.

Impress us with your innovative solution and learn about the cutting edge sensor and imaging needs.

**Lunch Talk** FM 50.2 Wed 13:45 Audi Max  
**Announcement of the 2019 New Journal of Physics (NJP)  
 Early Career Award** — ●ANTIGONI MESSARITAKI — IOP Publish-  
 ing, Bristol

This award recognises the talents of exceptional young researchers, who are making a significant contribution to their respective field of research. For more information please visit <https://iopscience.iop.org/journal/1367-2630/page/early-career-award> .

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