



SFB/TRR 21 - Colloquium

15. April 2016, Stuttgart

Volkmar Schultze

(Leibniz-Institut für Photonische Technologien, Jena)

Integrated optically pumped magnetometers

New developments of optically pumped magnetometers using Cesium vapor cells are presented. Based on the conventional Mx working mode, with the new Light-Narrowing regime high magnetic-field resolutions can be achieved with only mm-sized vapor cells. This opens up the way to integrated cell arrays, whose combinations can be used for various kinds of noise suppression. Furthermore, the adaption to magnetic-field sources of diverse lateral distribution is possible.

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Universität Stuttgart, NWZII, Raum 2.136
Pfaffenwaldring 57, 70569 Stuttgart

