

# On-line SPICE-SPIN+X Seminars



**Wednesday, 8th December 2021, 15:00 (CET)**

The seminar will be via Zoom ([Meeting ID: 848 1989 3632](#)) and live streamed in the SPICE YouTube Channel.



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## **X-ray magnetization movies: Spin dynamics in reality**

The field of spintronics and magnonics has become a flourishing synonym of future low-power, ultra-fast and persistent advanced information technologies with fantastic promises. However, the relevant magnetization dynamics with spatial and temporal dimensions in the sub  $\mu\text{m}$  and sub ns range are hard to access experimentally. An effective (and maybe the only) magnetic imaging technique elucidating the material-related difficulties and principle limits is provided by time-resolved X-ray microscopy. We explain the physical and technical basics of this method, the potentials and difficulties and discuss several magnetization movies.