

State-of-the-Art in Magnetic Resonance:

Methods and Clinical Applications

International lecture series organized by the Translational Imaging Center @ sitem-insel in Bern on recent progress and current applications of MR imaging and spectroscopy at standard and ultrahigh fields

Open source MRI: Pulseseq, patents, and collaboration strategies

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<http://www.uniklinik-freiburg.de/mr-en/team/zaitsev.html>

<http://pulseseq.github.io>

Definitive versatility of MRI fuels innovation by allowing for diverse signal manipulation and acquisition schemes. However, vendor-specific method development hinders transparency and reproducibility, limiting scientific cooperation. We advocate for a fully open-source MRI ecosystem, promoting the sharing of all pulse sequence and image reconstruction code, along with standardized calibration routines. We believe that this will foster collaboration, address reproducibility concerns, and mitigate artificial vendor boundaries. While sharing source code enhances research impact, it also demands responsible handling of intellectual property (IP), which calls for respect and understanding across the entire MR community. The open-science transformation is crucial for advancing MRI research, but it critically depends on the broad support of the MR community, industry and beyond.

Wednesday, September 24 2025, 16:00



The lecture will be held as an **in-person meeting** at Sitem-insel Auditorium E0.211 (ground floor, Felix Frey Auditorium) Freiburgstrasse 3, Bern, followed by an Apéro to continue discussions and networking

and in addition **broadcast via Zoom** at

<https://unibe-ch.zoom.us/j/66256483922?pwd=aE1kTFg5aUZza1JmWEJxZDVsdnV5dz09>.

Please feel free to spread the word to anyone interested

For further info contact jessica.bastiaansen@unibe.ch

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