

Session MAR-J57: Physical, Statistical and AI modeling of Spatiotemporal Medical Imaging

- **Focus Session:** [Session MAR-J57](#)
- **Sponsoring Unit:** [GMED](#)
- **Date/Time:** Tuesday, March 17, 2026, 3:30 PM – 6:00 PM CT
- **Room:** [Convention Center Bluebird 2A](#)
- **Session Chairs:** [Ivo Dinov](#) & [Sarah Ashmeg](#)



JOINT MARCH MEETING AND APRIL MEETING

Global Physics Summit

Time	Presentation	Speaker
3:30 PM – 4:06 PM	MAR-J57.00001: AMPERE: A Global Physics Framework for Advancing Medical Physics Research, Education, and Workforce Development	Stephen M. Avery (Invited)
4:06 PM – 4:42 PM	MAR-J57.00002: Complex Time and the Principle of Least Entropic Purpose	Michael C. Parker (Invited)
4:42 PM – 5:18 PM	MAR-J57.00003: [Title TBD]	Russell Thompson (Invited)
5:18 PM – 5:30 PM	MAR-J57.00004: Second-order Statistical Image Texture Features from Spectral X-ray Images when using Photon-Counting Spectral Detectors	Oliver Namuwonge, Diego Andrade, Mini Das
5:30 PM – 5:42 PM	MAR-J57.00005: Fractal Diffusion-Reaction Framework for FLASH-UHDR Tissue Sparing	Neda Valizadeh Gendeshmin, Robabeh Rahimi, Ramin Abolfazl
5:42 PM – 5:54 PM	MAR-J57.00006: Estimating Uncertainty of a Deep Learning-Based Breast Cancer Risk Prediction Model Using Test-Time Augmentations	Z. Klanecek, Y-K Wang, T. Wagner, L. Cockmartin, N. Marshall, A. Studen, K. Jarm, M. Krajc, M. Vrhovec, H. Bosmans, A. Deatsch, R. Jeraj