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## Multi-messenger astrophysics with information field theory

*Tuesday 26 March 2024 11:00 (15 minutes)*

Combining data from several instruments to recover signals in time, space, and frequency domains has several challenges, which can be addressed via information field theory (IFT). The potential of IFT-based multi-messenger signal reconstruction is highlighted with recent results on QPO search in magnetar X-ray bursts, multi-frequency all-sky gamma-ray imaging, 3D galactic dust tomography, and black hole filming.

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