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## Introduction to timing analysis and X-ray variability in AGN

*Monday, 16 February 2026 09:30 (1h 30m)*

**Content:** This lecture will introduce the concept of random processes, and in particular stationary random processes, which are of significant importance in the study of variable phenomena in Astrophysics. I will give the definition of the auto-covariance and of the power spectral density function of a random process. I will then discuss how we estimate these random functions, and why it is preferable to work in the frequency rather than in the time domain.

**Presenter:** Prof. PAPADAKIS, I.