

TOPOLOGICAL SIGNAL DETECTION IN LISA: A NOISE-AGNOSTIC APPROACH TO GRAVITATIONAL WAVES ANALYSIS

Lorenzo Viganò, Riccardo Buscicchio, Alberto Sesana, Massimo Dotti

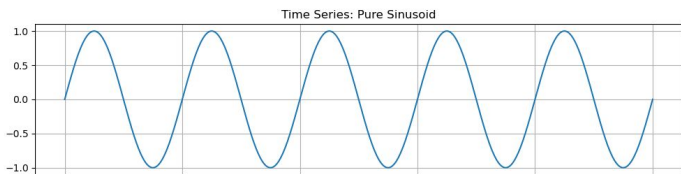
Time domain data

→ Embedding

→ Topological classification

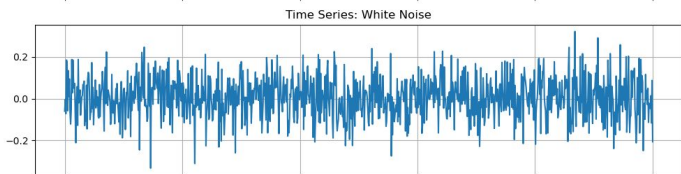
→ Rapid parameter estimation without PSD assumptions

Signals



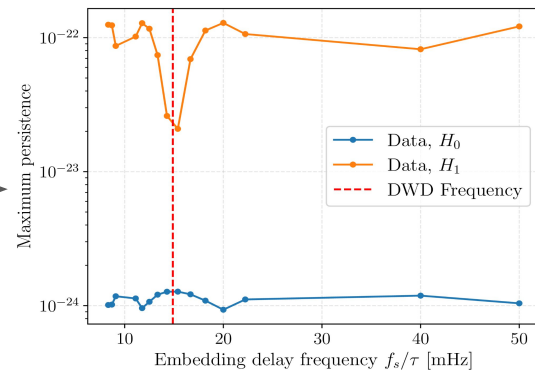
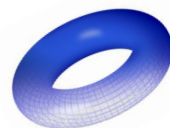
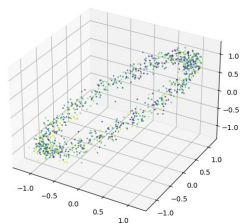
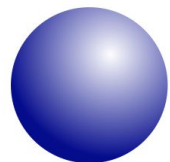
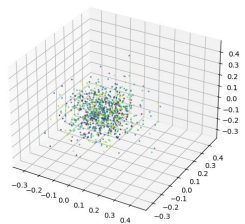
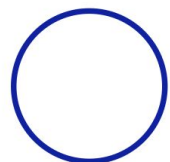
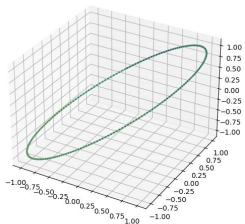
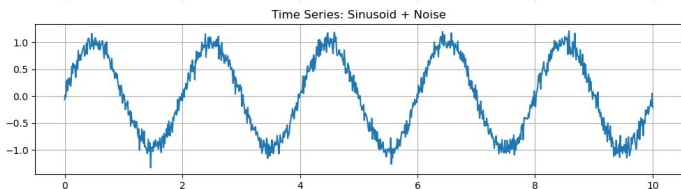
+

Noise



=

Data



contacts

