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Costless Performance Gains in Nested Sampling for Applications to AI and Gravitational Waves

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Nested sampling is a tool for posterior estimation and model comparison across a wide variety of cross-disciplinary fields, and is used in Simulation Based Inference and AI emulation. This talk explores the performance and accuracy gains to be made in high dimensional nested sampling by rescuing the discarded likelihood evaluations available in present nested sampling runs, and is thus useful to all users of nested sampling.

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Session Classification: 2.1 Pattern recognition & Image analysis

Track Classification: Session A