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Exploring Lepton Flavor Structures with a Latent Diffusion Model

Wednesday, 18 February 2026 14:50 (20 minutes)

In this talk, we present a model-independent analysis based on a latent diffusion model to address the flavor structure of leptons. The latent diffusion model combines a diffusion model with a variational autoencoder as a generative AI framework. By generating a wide variety of parameter sets consistent with experimental observations, we find non-trivial features characterizing lepton flavor structures.

Presenter: KITAGAWA, Haruto

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