

Uncertainty quantification and the method of Lagrangian Descriptors

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(Dated: May 19, 2023)

In this talk, we will present a new uncertainty quantification measure appropriate for quantifying the performance of models in assessing for example the origin or source of a given observation. We have noticed that in a neighborhood of the observation this uncertainty measure is related to the invariant dynamical structures of the model such as hyperbolic trajectories and their stable and unstable manifolds