



Contribution ID: 70

Type: **not specified**

## Information geometry and the renormalization group

*Monday 23 September 2024 14:30 (20 minutes)*

The talk reviews how a geometric approach to information theory and the functional renormalization group are closely connected. Information geometry defines distances on spaces of probability distributions, as well as further differential geometric structure like connections or curvature. In the context of field theories one can define on that basis geometrical structure on the space of theories which might help to better understand renormalization group flows.

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**Session Classification:** Parallel A