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## Continuous flows and transfer learning

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We explore continuous flows as generative models, focusing on their architectural flexibility in implementing equivariance, and test them on the  $^4$  theory. Using this setup, we show how a machine-learning approach enables transfer between lattice sizes and allows us to learn for a continuous range of theory parameters at once. Investigating the sample efficiency of training, we find that the expressivity of continuous flows may justify their higher numerical cost due to integration.

**Primary authors:** GERDES, Mathis (University of Amsterdam); DE HAAN, Pim

**Co-authors:** RAINONE, Corrado; BONDESAN, Roberto; CHENG, Miranda C. N.

**Presenter:** GERDES, Mathis (University of Amsterdam)