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Hands-on Ricci-flat metrics with \texttt{cymetric}

Friday 17 December 2021 16:30 (30 minutes)

In this talk I'll demonstrate how to find numerical approximations of the unique Ricci-flat metric on Calabi-Yau manifolds with the new open source package \texttt{cymetric}. In a first step points and their integration weights are sampled from some Calabi-Yau manifold. In a second step a neural network will be trained to learn the exact correction to the Fubini-Study metric. A jupyter notebook will be used to visualize this process.

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