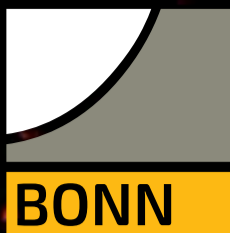


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# Bethe Forum

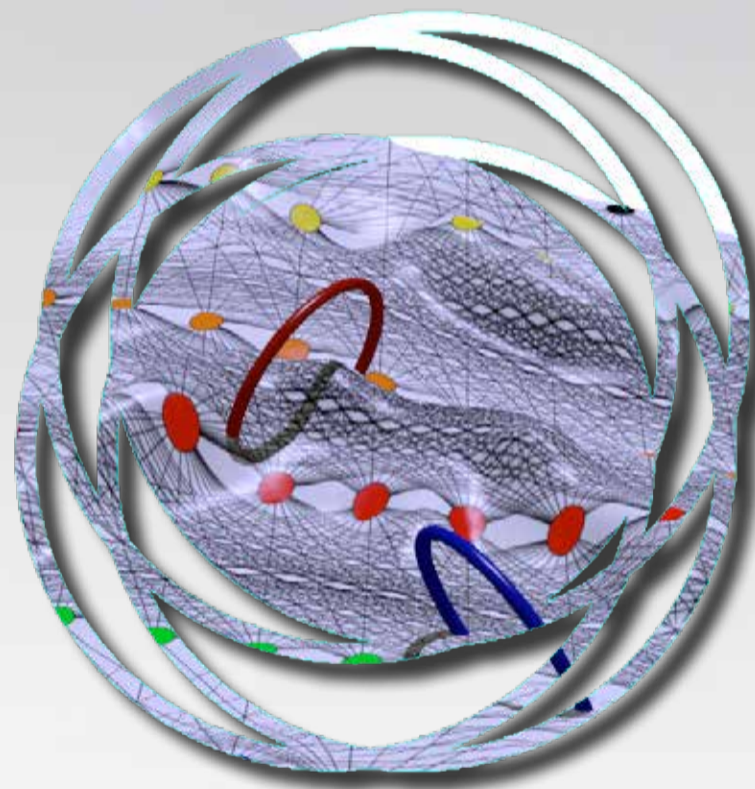
## Machine Learning: Where to Apply in Theoretical Physics - Preliminary Lecture

**Jim Halverson**

Northeastern University, Boston

### Recent Results at the Intersection of Machine Learning and Theoretical Physics

Abstract: In this talk I will provide a birds-eye-view of some results in machine learning and theoretical physics from the last year, including their motivation and techniques. Topics discussed will include machine learning for Calabi-Yau metrics, knot theory, lattice-QCD, and a correspondence between QFT and neural networks.



**June 8, 2021 - 3 pm**  
**Online meeting**

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Additional information and application form:

[www.bctp.uni-bonn.de/bethe-forum/2021/ml\\_lecture](http://www.bctp.uni-bonn.de/bethe-forum/2021/ml_lecture)