## **CHIPP 2024 Annual meeting**



Contribution ID: 140

Type: not specified

## Machine Learning in b -> s ll

Wednesday 19 June 2024 15:35 (12 minutes)

Short-distance (SD) effects in  $b \to sl^+l^-$  transitions can give large corrections to the Standard Model prediction. They can however not be computed from first principles. In my talk I will present a neural network, that takes such SD effects into account, when inferring the Wilson coefficients  $C_9$  and  $C_{10}$  from  $b \to sl^+l^-$  angular observables. The model is based on likelihood-free inference and allows to put stronger bounds on new physics scenarios than conventional global fits.

Author: AEBISCHER, Jason (University of Zurich)Presenter: AEBISCHER, Jason (University of Zurich)Session Classification: ML Workshop