

Calibration with Machine Learning in Astronomy

Samuel Alan Kossoff Leeney

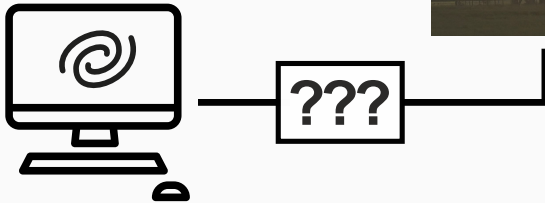
Machine Learning for Astronomy 2024

14 November 2023

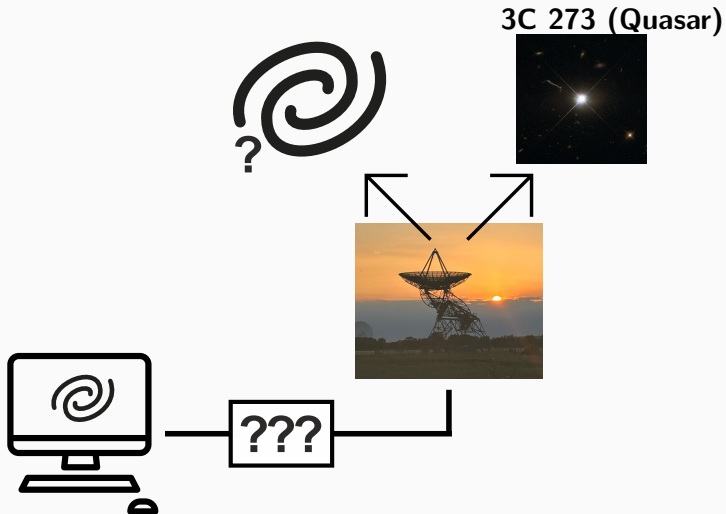
Co Authors: Harry Bevins, Will Handley, Eloy de Lera Acedo, Jiacong Zhu,
Kaan Artuc, Daniel Molnar



What is calibration in Astronomy?

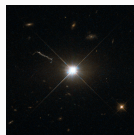
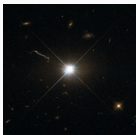


How to calibrate?



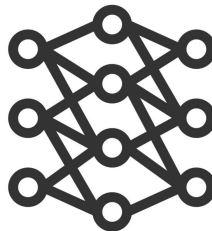
Why is machine learning helpful?

Train

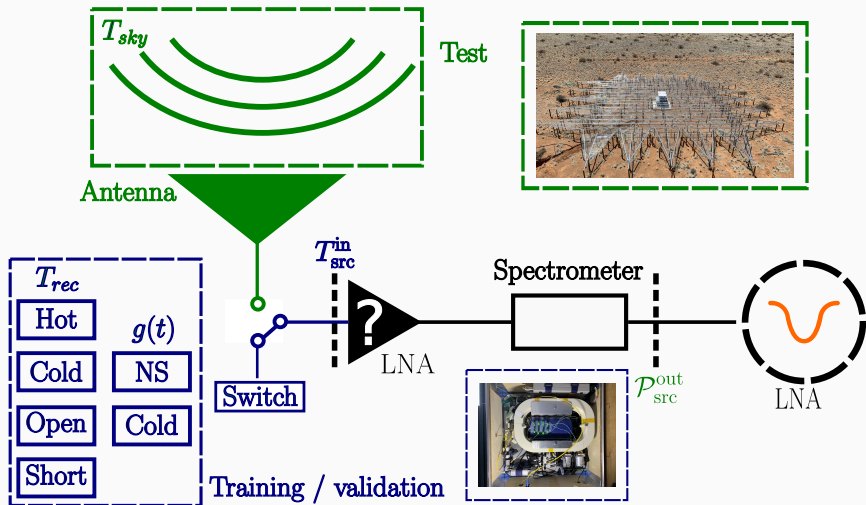


Predict

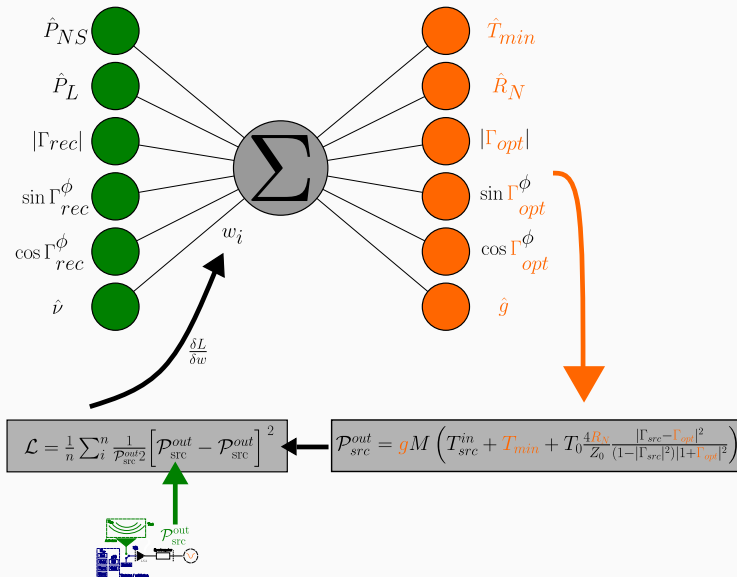
???



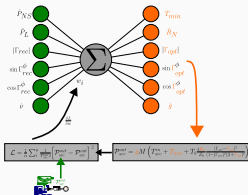
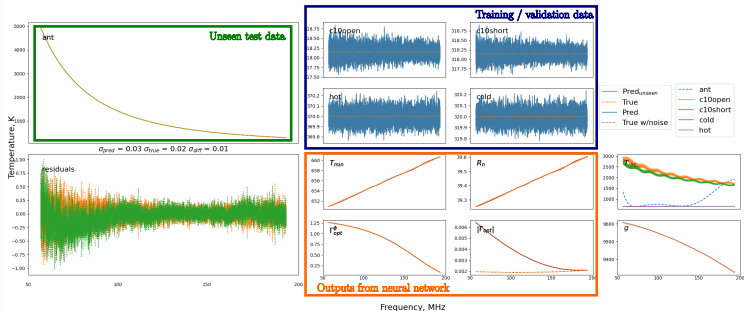
Machine learning for radiometer calibration in global 21cm cosmology



Machine learning for radiometer calibration in global 21cm cosmology



Machine learning for radiometer calibration in global 21cm cosmology



Thank you!



SCAN ME