

# LyAl-Net: a neural network emulator for Lyman- $\alpha$ forest simulation

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I will present a demo of LyAl-Net, an emulator for cosmological simulation which has been trained on Horizon-noAGN at  $z=2.43$ . It is designed to emulate hydrogen temperature and density from any dark matter simulation with the resolution of  $\sim 0.0976$  Mpc/h in the field level.

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**Classification de Session:** Contributions