

# Cosmological super resolution in progress

We are currently working on super-resolution of cosmological simulations by training a  $2\times$  StyleGAN neural network. After successful tests with a pretrained model on  $64^3$ -particle simulations, we moved to CINECA G100 cluster to investigate training strategies for much larger simulations ( $512^3 \rightarrow 1024^3$  particles).

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