Reconstructing the Neutron Star Equation of State with Bayesian Deep Learning

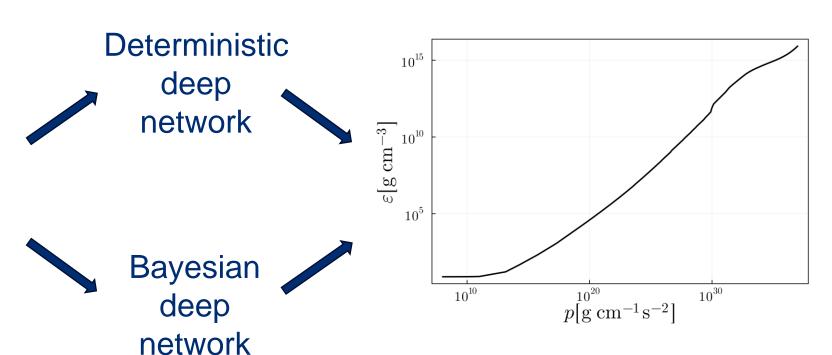
Giulia Ventagli
CEICO, Institute of Physics of the Czech Academy of Sciences



From observations to nuclear matter properties



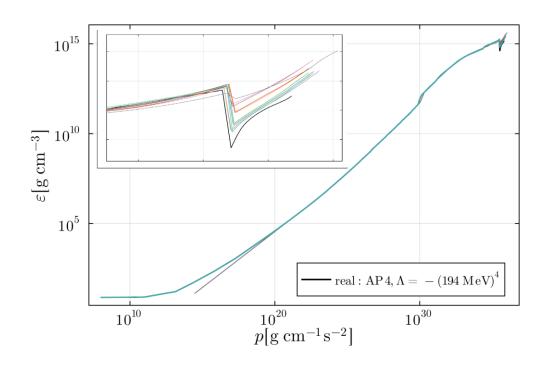
Masses, radii, tidal deformabilities

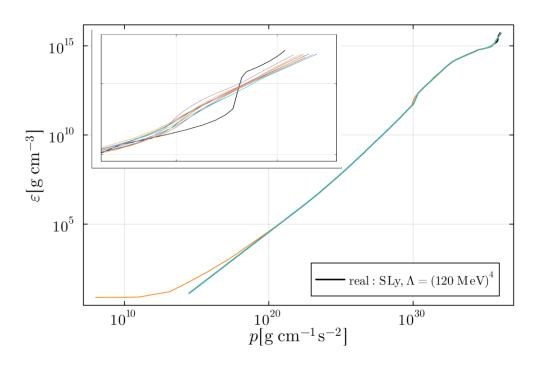


Reconstruct $\varepsilon = \varepsilon(p)$



Our predictions





We also include and predict a vacuum energy phase transition!

