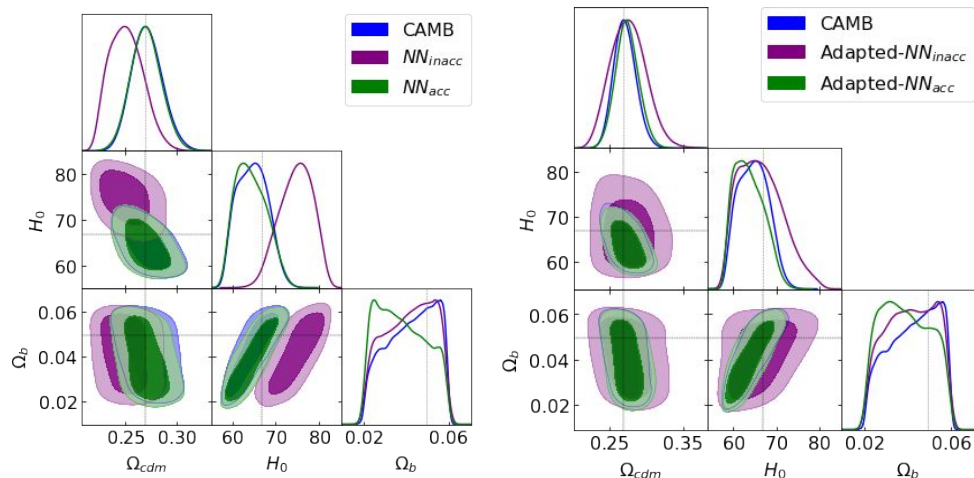


Bayesian error propagation for neural-net based parameter inference 2205.11587

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Neural nets are by setup approximators, how to avoid that the NN's approximation error will bias the parameter inference?

Solution arXiv:2205.11587: Bayesian posterior for NN-based inference

$$\mathcal{P}(\mathbf{p}|\mathbf{x}) \propto \exp\left(-\frac{1}{2}[\boldsymbol{\xi}(\mathbf{p}) - \bar{\boldsymbol{\Delta}}]^T \Psi [\boldsymbol{\xi}(\mathbf{p}) - \bar{\boldsymbol{\Delta}}]\right) \pi(\mathbf{p})$$