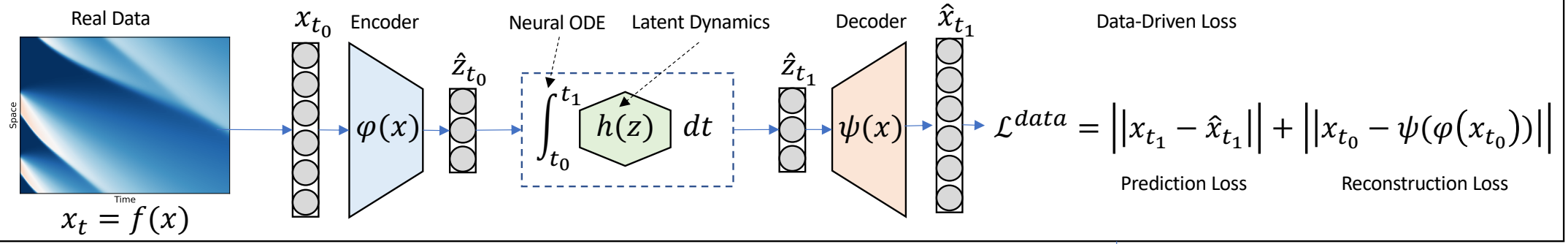
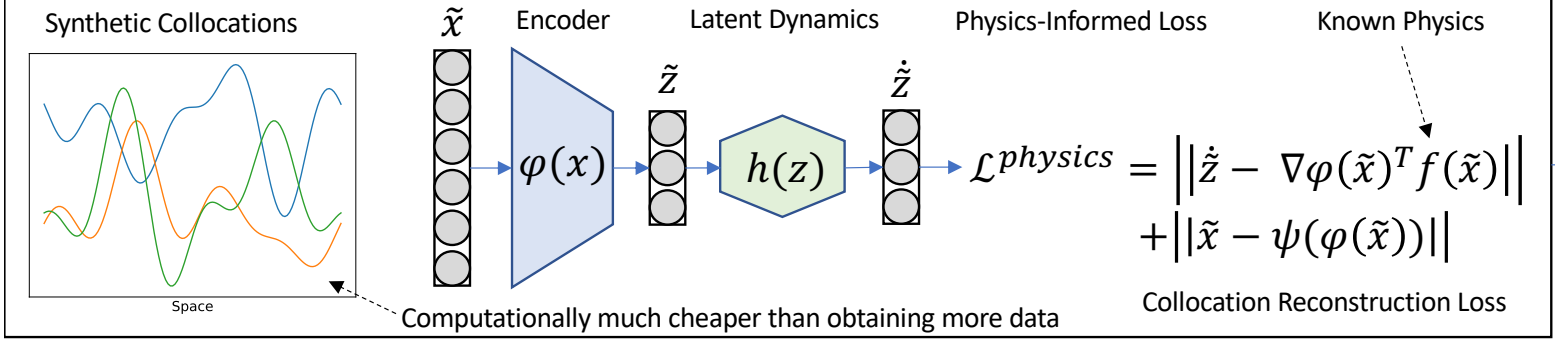
Data-Driven Reduced-Order Model

Problem: model is excellent in interpolation quality but data-hungry and unstable for long-term out-of-distribution prediction

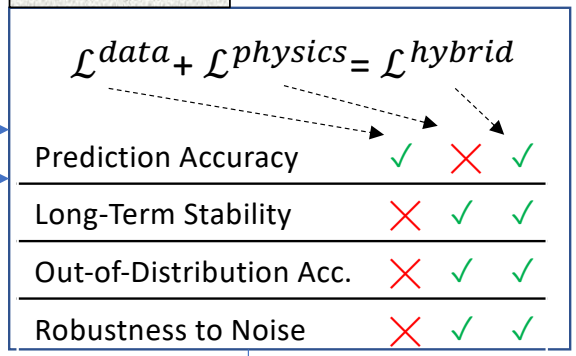


Physics-Informed Loss

Solution: integrate knowledge of physics into the model via collocation points technique



Hybrid Model



Results