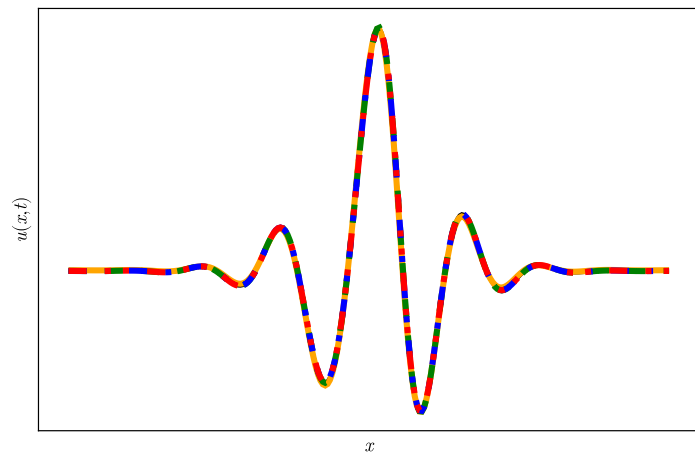
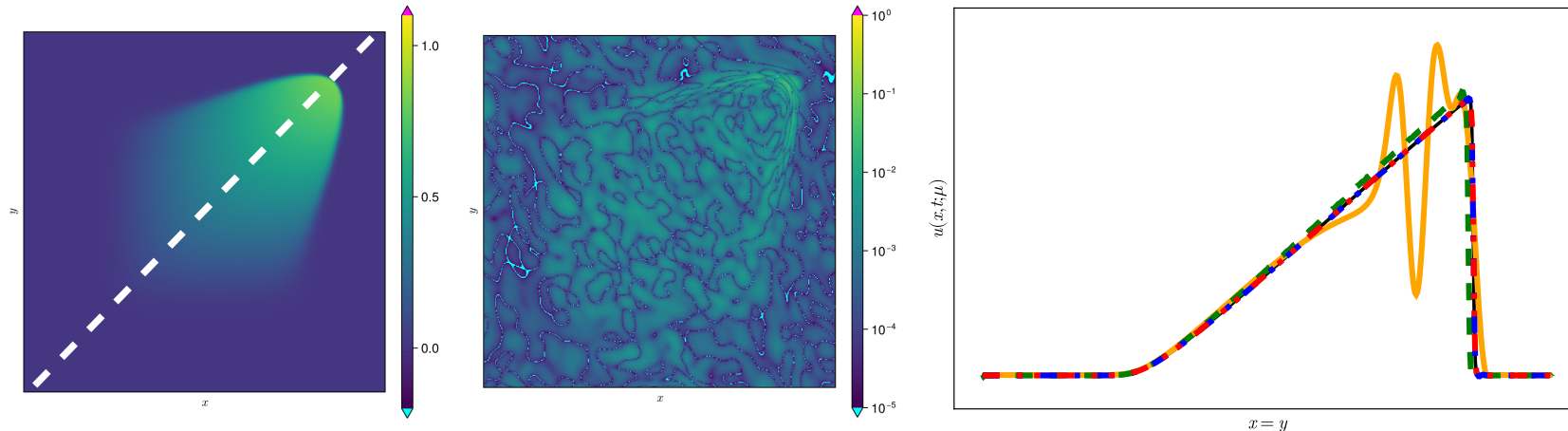


— FOM
 — CAE-ROM
 — POD-ROM
 — SNFL-ROM (ours)
 — SNFW-ROM (ours)

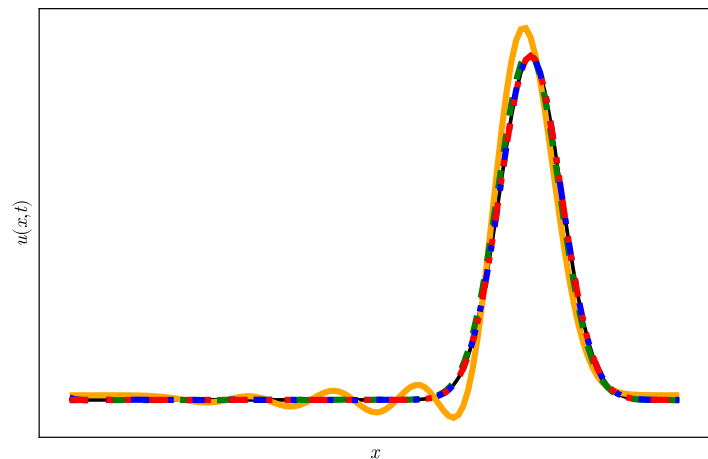
1D Kuramoto-Sivashinsky problem



2D viscous Burgers problem ($Re\ 1k$)

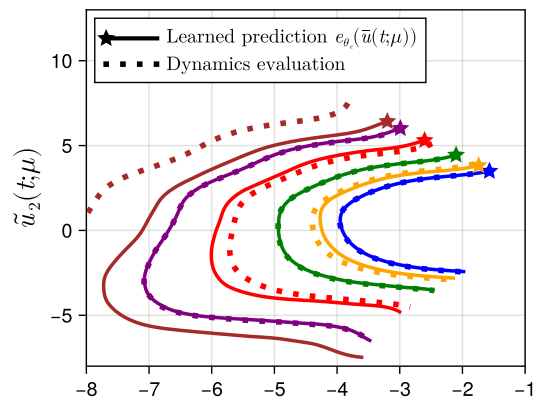


1D scalar advection problem

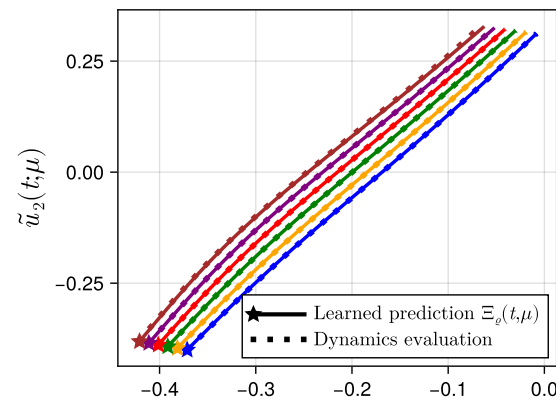


1D viscous Burgers problem ($Re\ 10k$) (parameter extrapolation study)

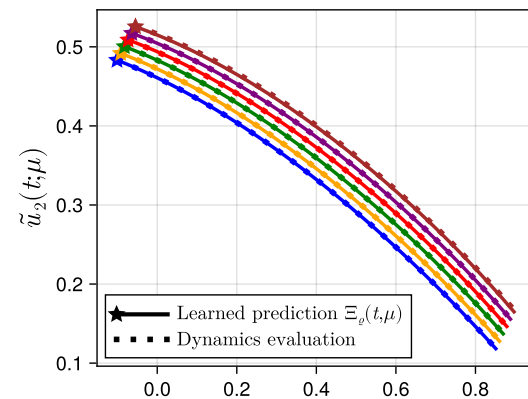
— $\mu = 0.500$ (Training) — $\mu = 0.550$ (Training) — $\mu = 0.600$ (Training)
— $\mu = 0.525$ (Interpolation) — $\mu = 0.575$ (Interpolation) — $\mu = 0.625$ (Extrapolation)



CAE-ROM



SNFL-ROM



SNFW-ROM