#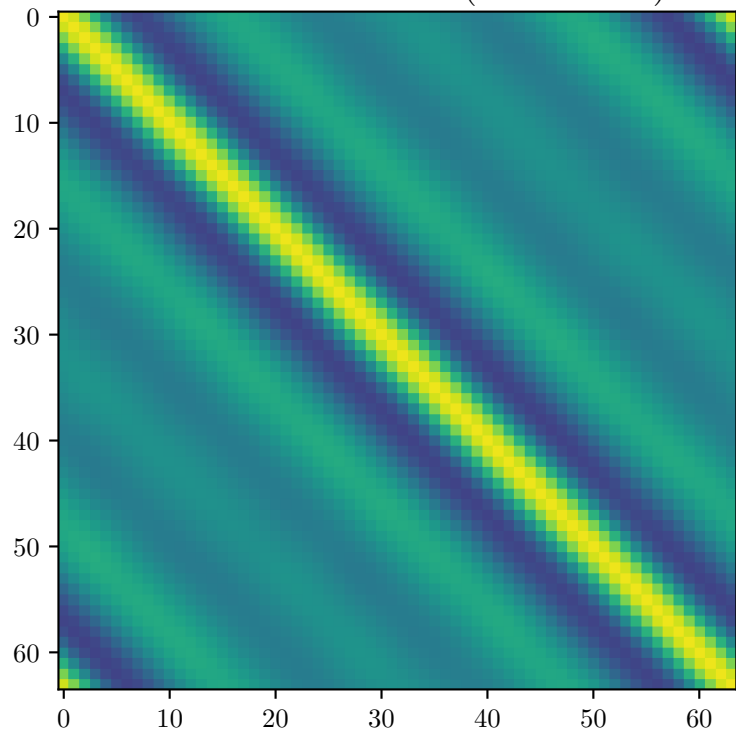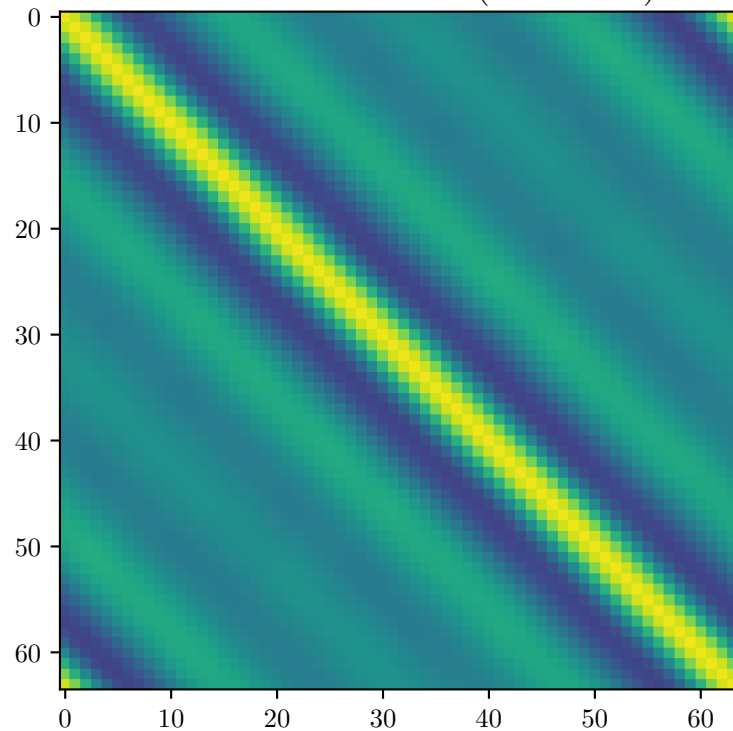 Number of latent states $(n^{ls}) = 11$