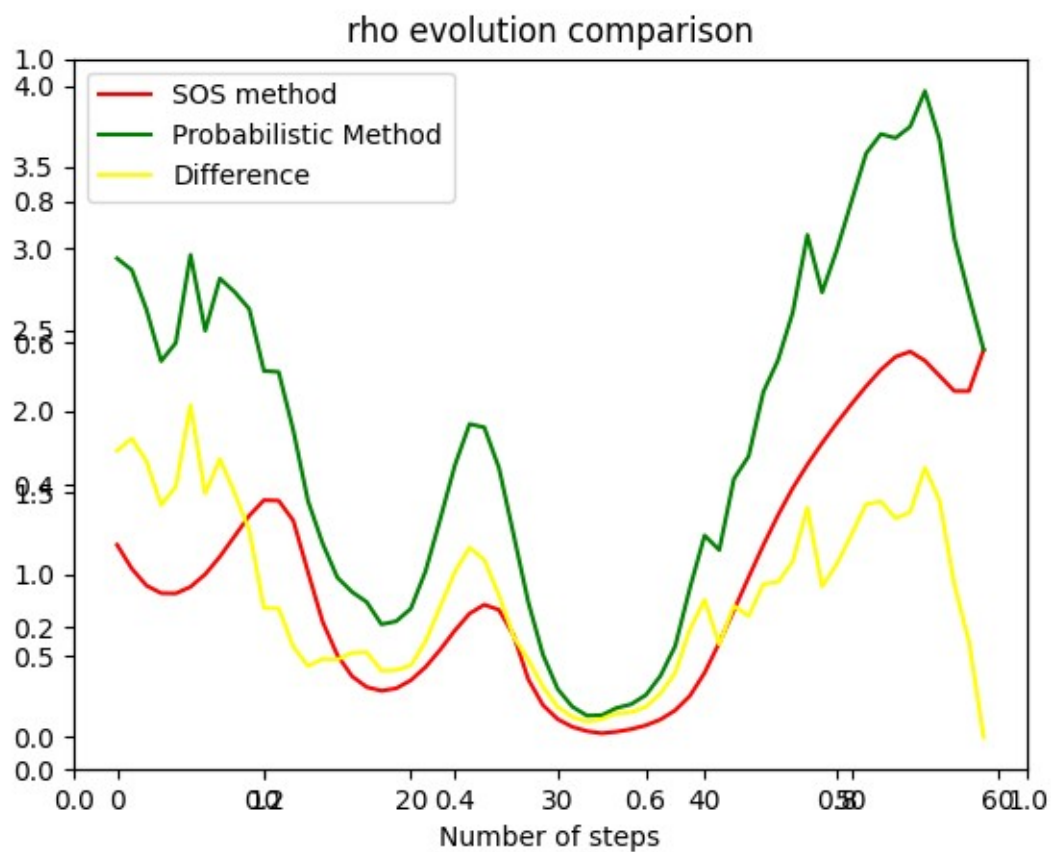
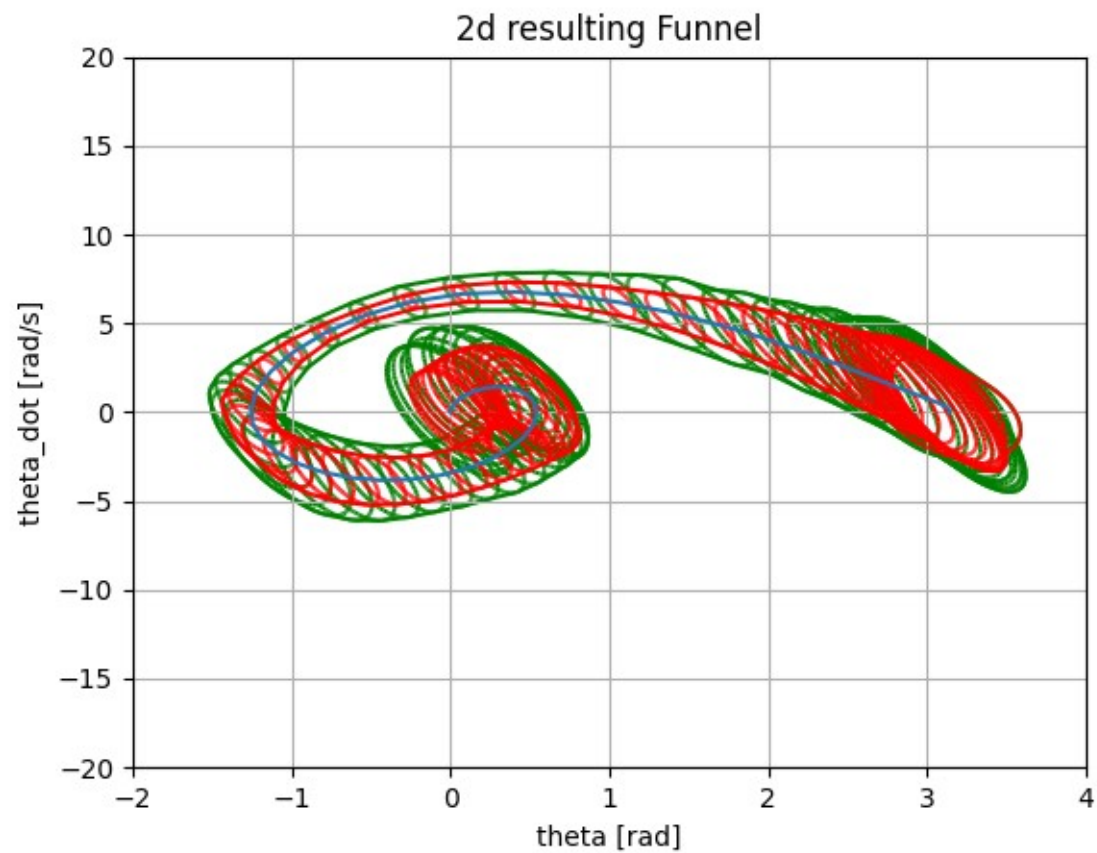
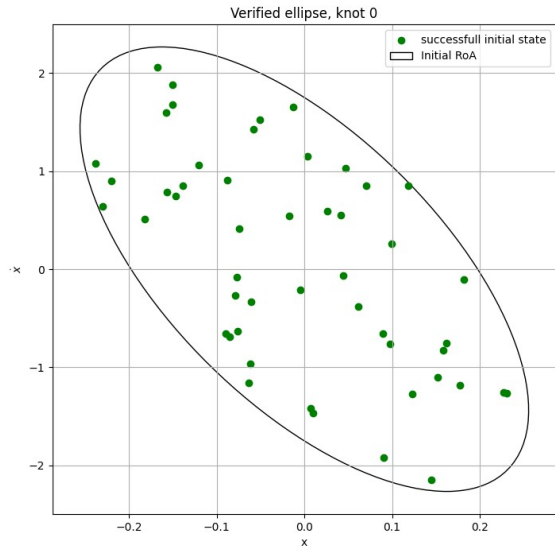


Results Comparison:

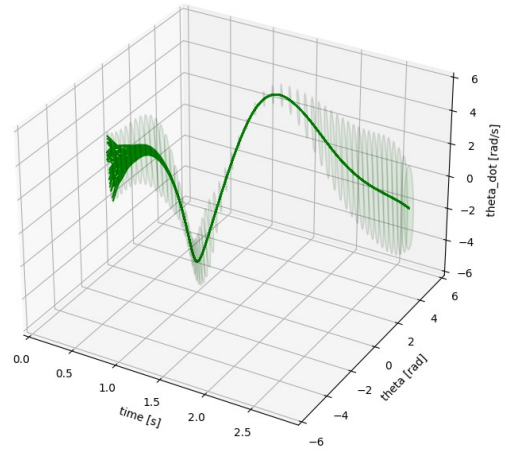


Verification of the funnel obtained via the SOS method:

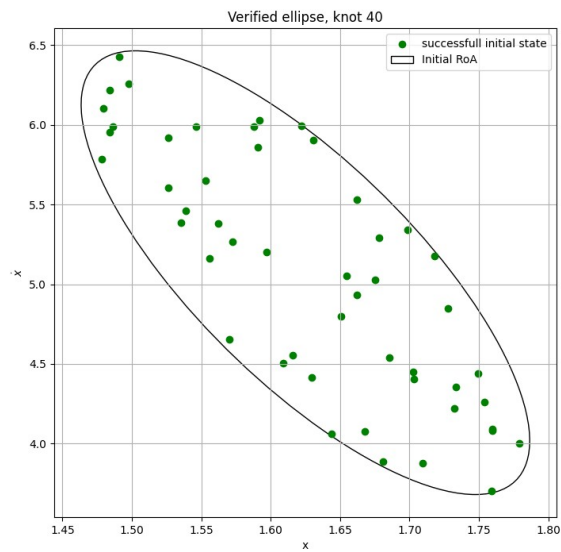
Verification of RoA guarantee certificate



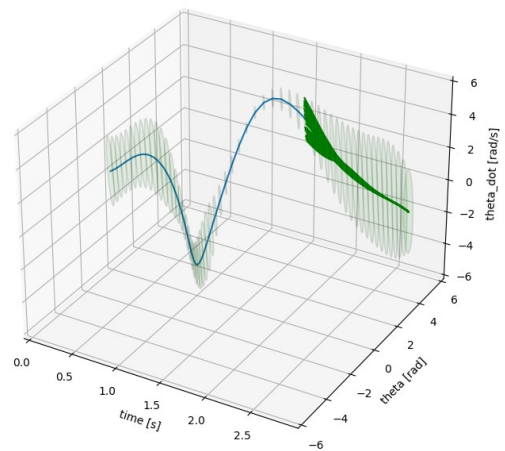
3d resulting Funnel



Verification of RoA guarantee certificate

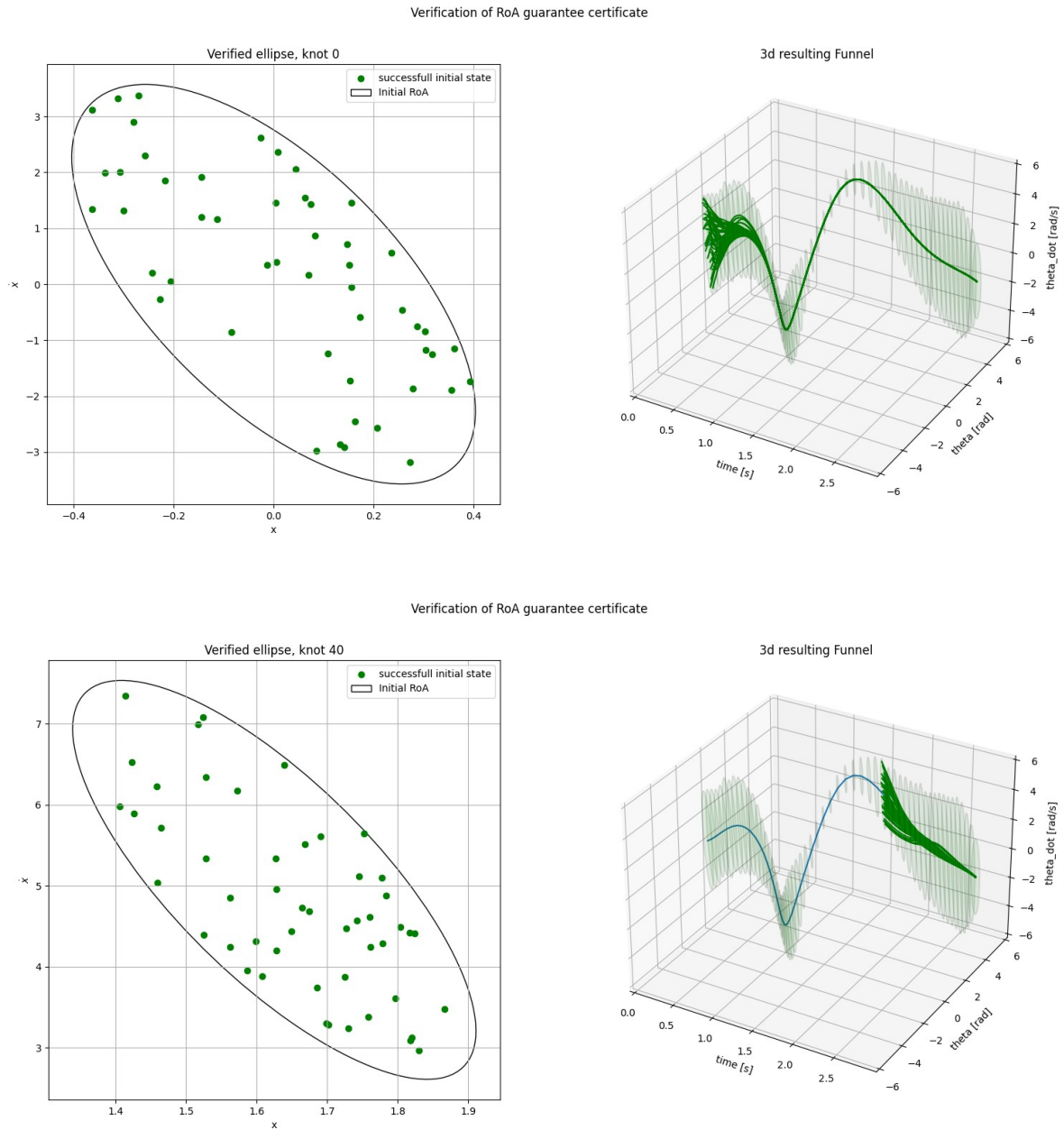


3d resulting Funnel



Note: Here we are theoretically guaranteed to never fail and the simulated verification is useful just because it gives us more confidence.

Verification of the funnel obtained via the Simulation-based Probabilistic method:



Note: Here the simulated verification is necessary because we are not guaranteed to end up with an inner estimation of the real funnel as with the SOS method. It can be noticed how this funnel is slightly bigger than the previous one, this characteristic can cause failures in the verification. Here we are not obtaining such failures since we decide to use a “big enough” nSimulations in the estimation phase.