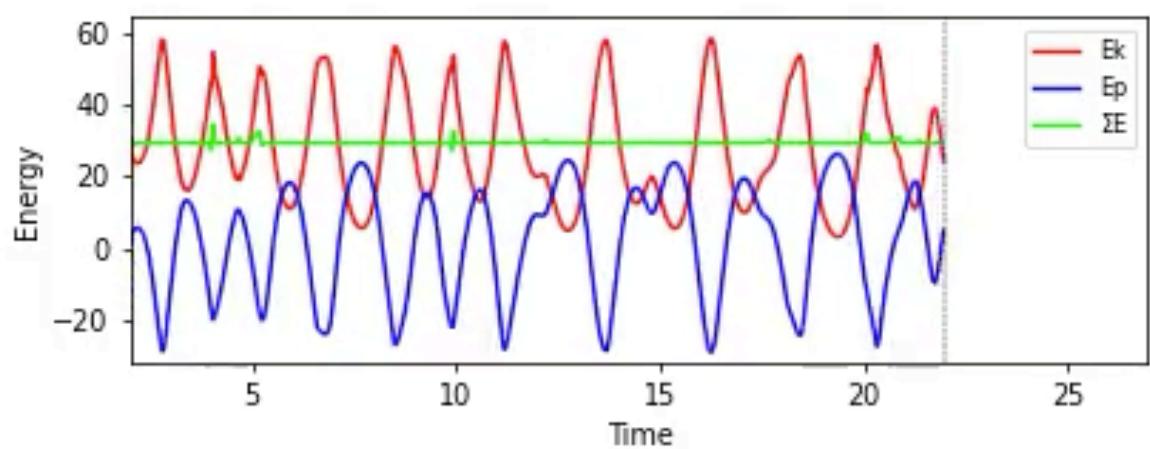
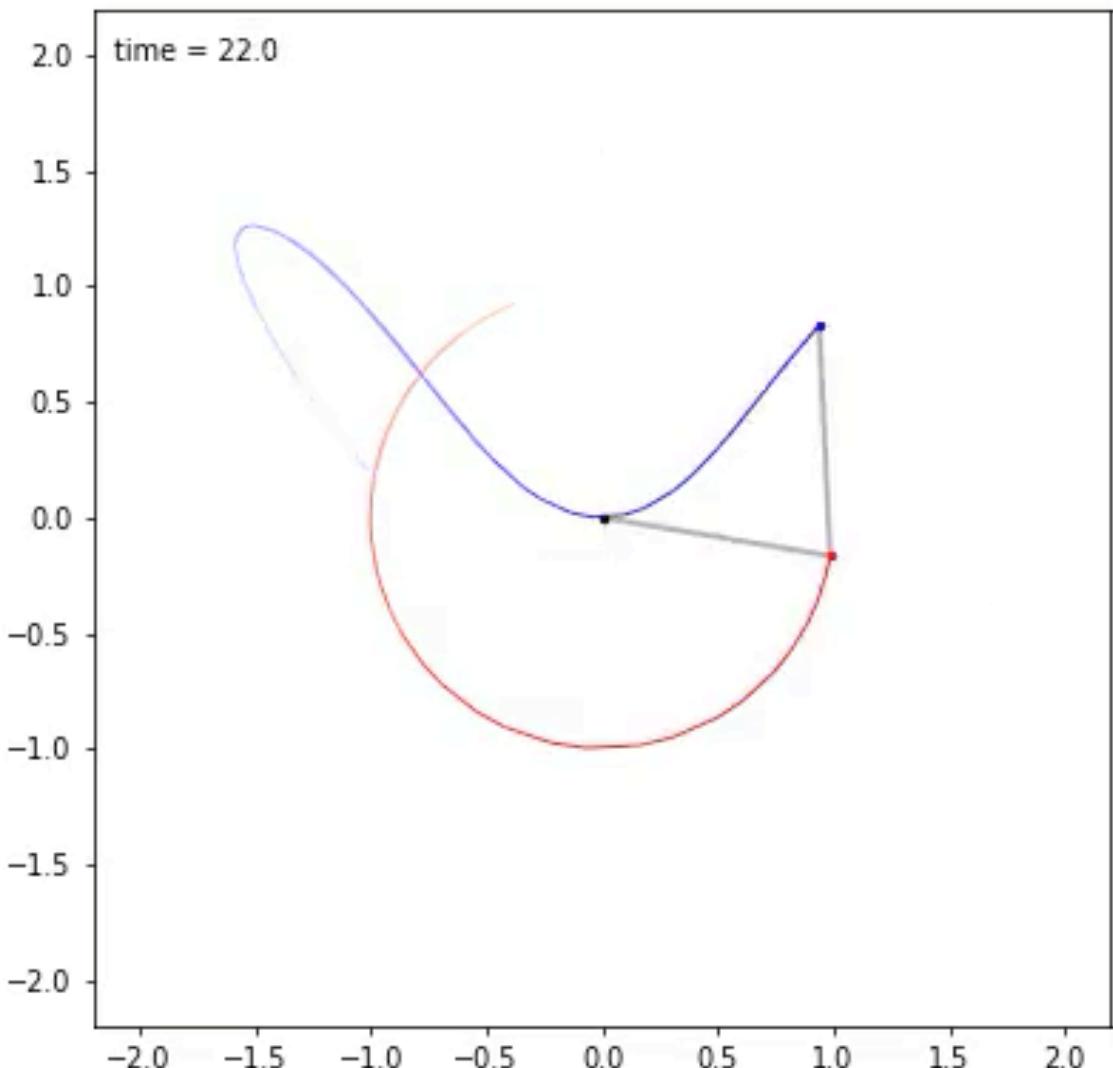
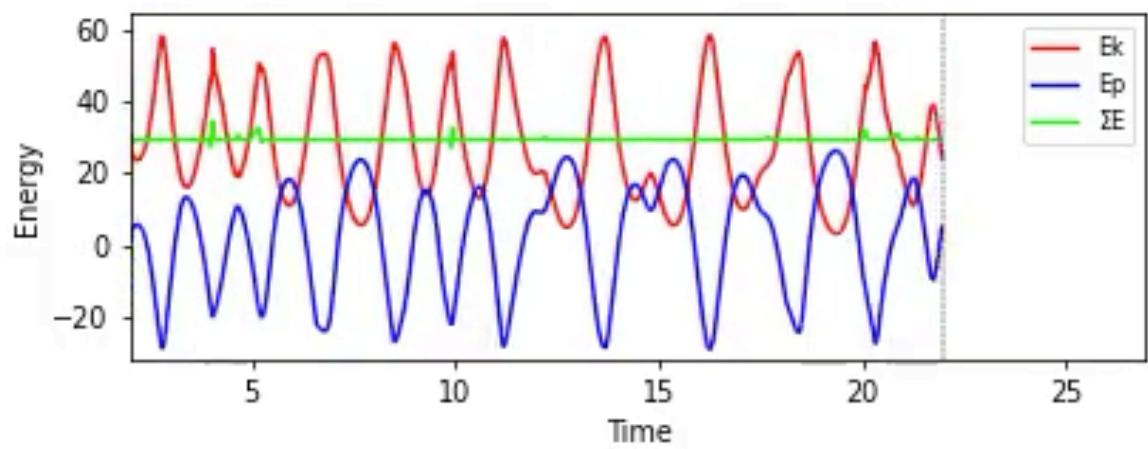
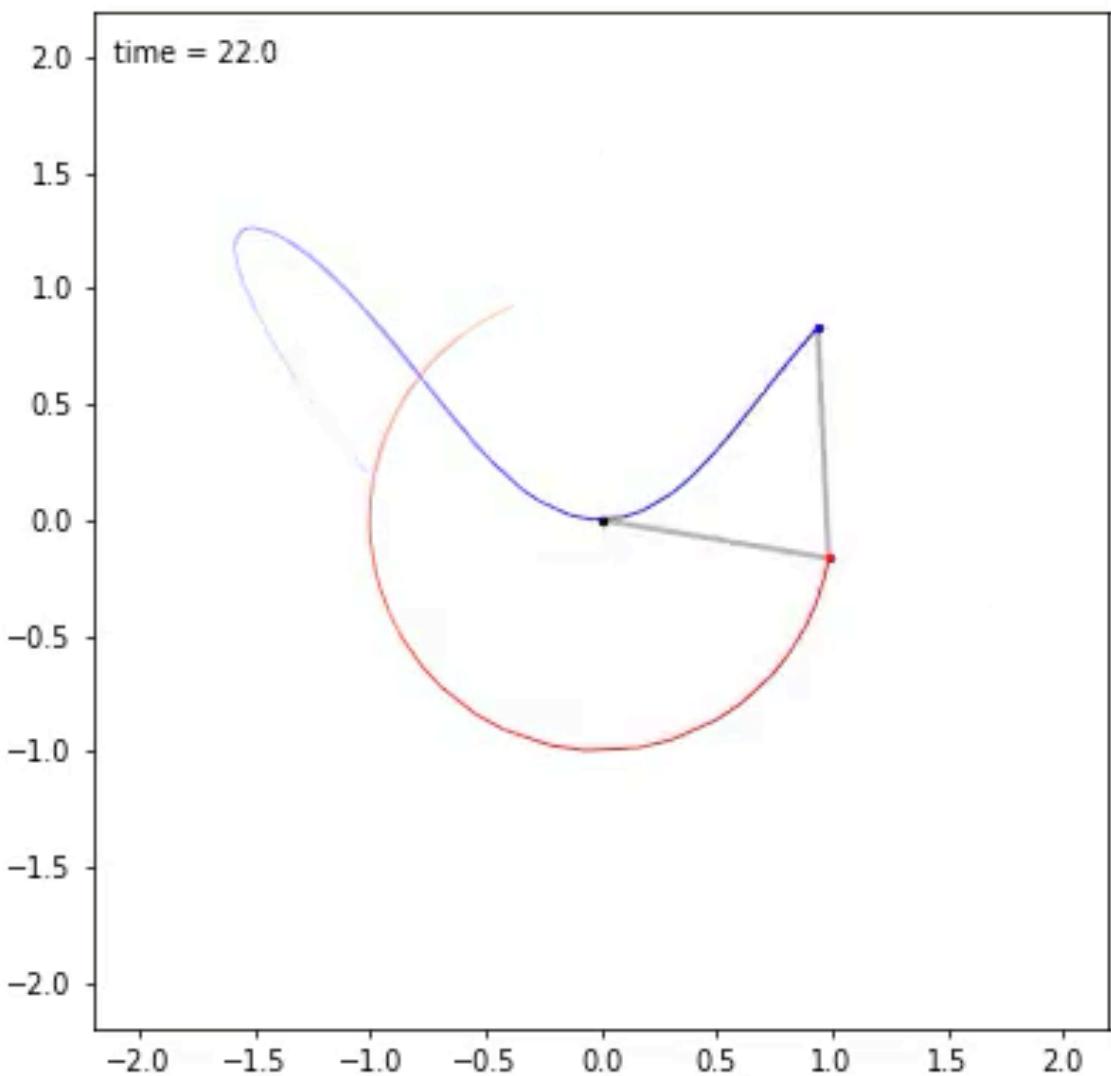


introduction

constraint dynamics core

Result of simulation

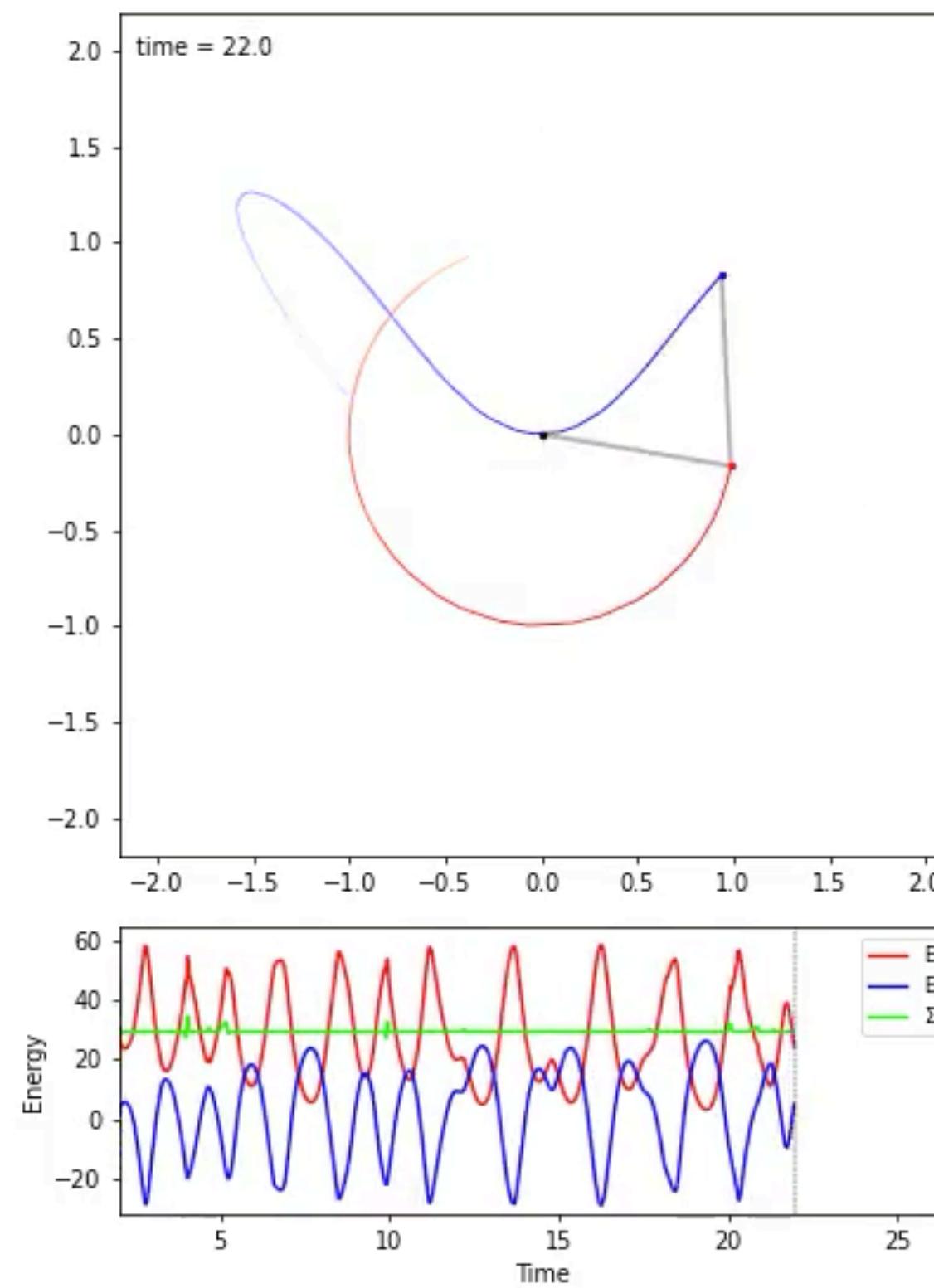




Introduction

Energy Constraint in Dynamic Core

Result of simulation



Experiment

Design of Experiment

Double Pendulum: Nature Run

雙擺參數：

擺桿長度：10m

擺錘質量：1kg

初始狀態：

θ_1 : 179.5°

θ_2 : 179.5°

$\dot{\theta}_1$: 0°/秒

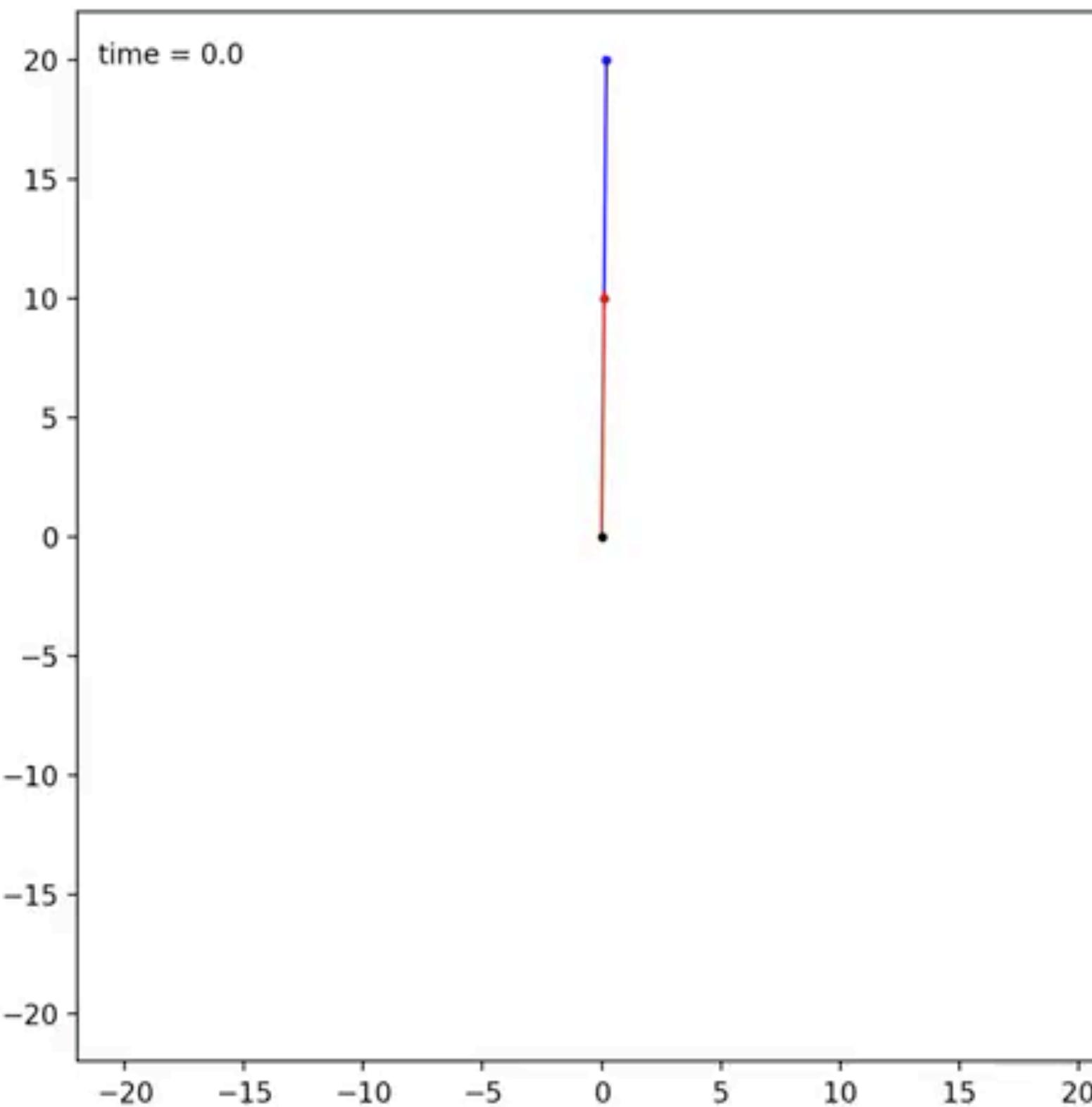
$\dot{\theta}_2$: 0°/秒

模擬參數：

時步： 0.005秒

總時長： 200秒

同化週期：1秒



Observer

觀測參數：

角度測量標準差差： 2°

角速度測量標準差差： 2.828°