

1 Study 2

Single particle
Positions

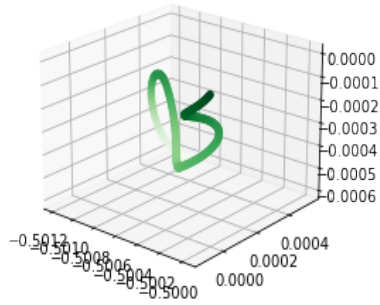


Figure 1: position

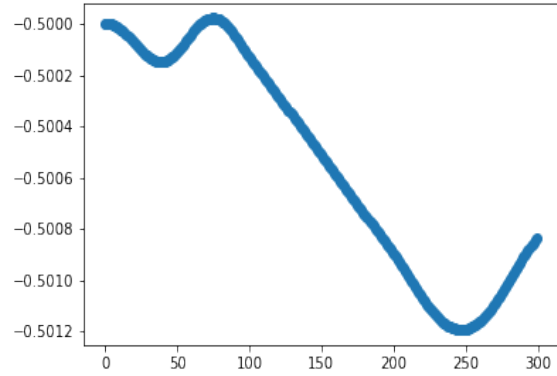


Figure 2: x -component of position

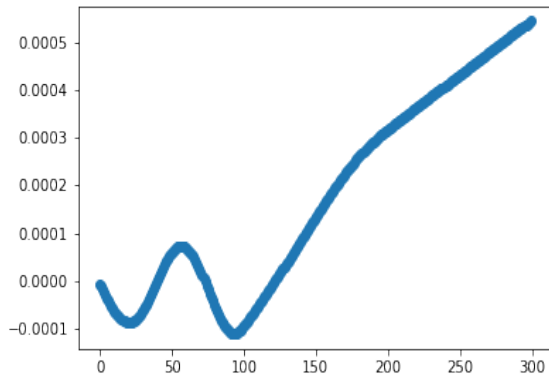


Figure 3: y -component of position

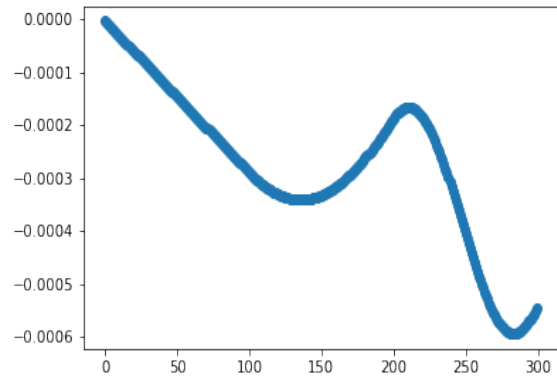


Figure 4: z -component of position

Velocity

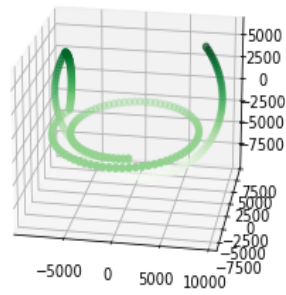


Figure 5: velocity

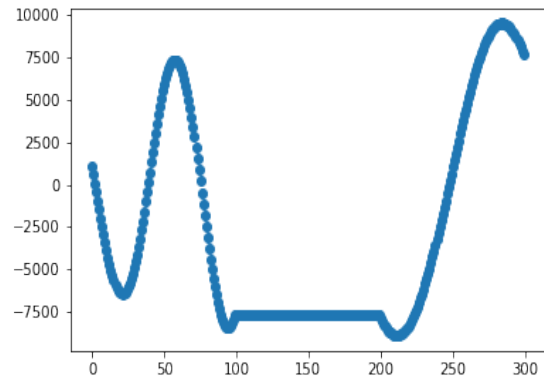


Figure 6: x -component of velocity

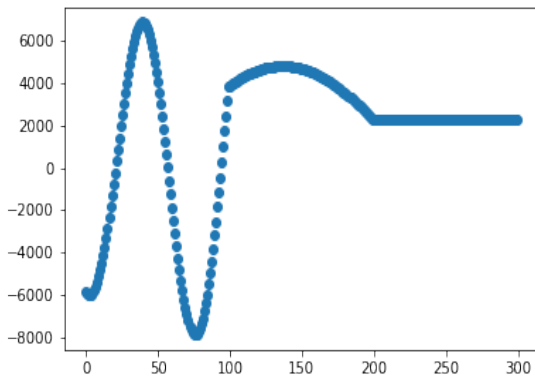


Figure 7: y -component of velocity

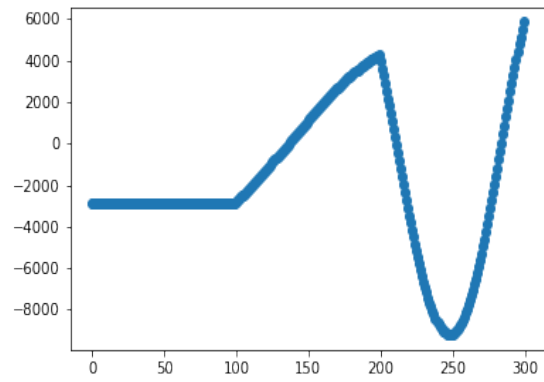


Figure 8: z -component of velocity

Multipartilces
Positions

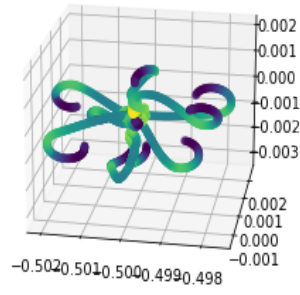


Figure 9: positions

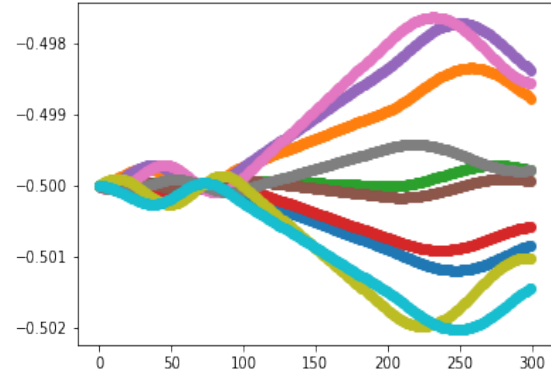


Figure 10: x -component of positions

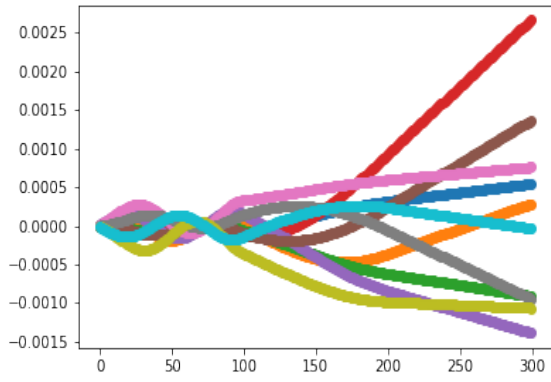


Figure 11: y -component of positions

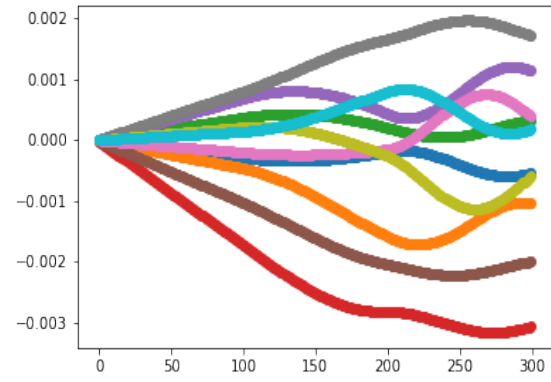


Figure 12: z -component of positions

Velocities

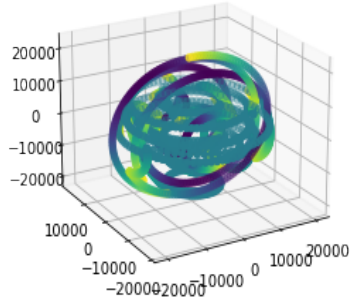


Figure 13: velocities

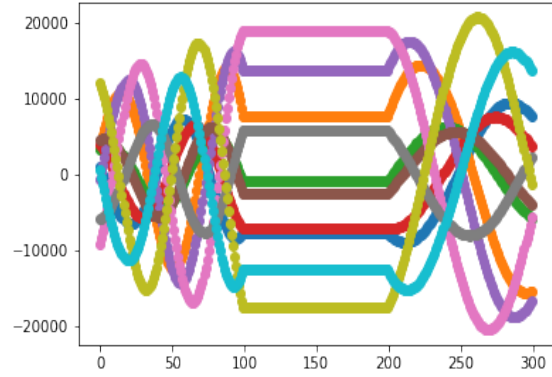


Figure 14: x -component of velocities

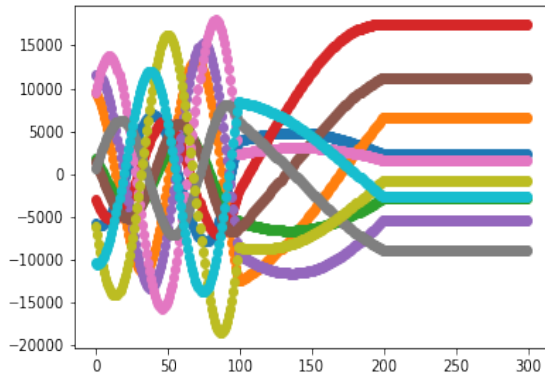


Figure 15: y -component of velocities

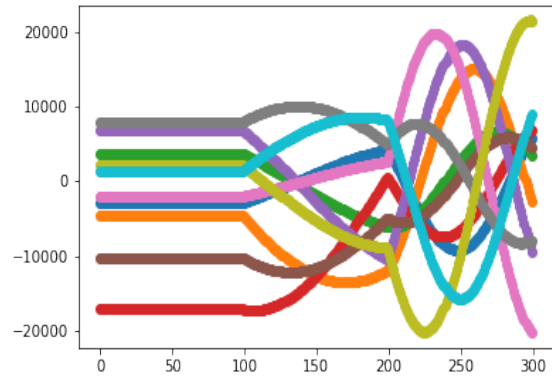


Figure 16: z -component of velocities

2 Study 3

Single particle
Positions

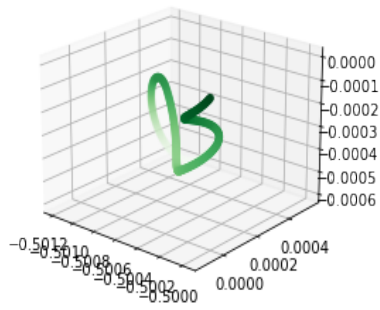


Figure 17: position

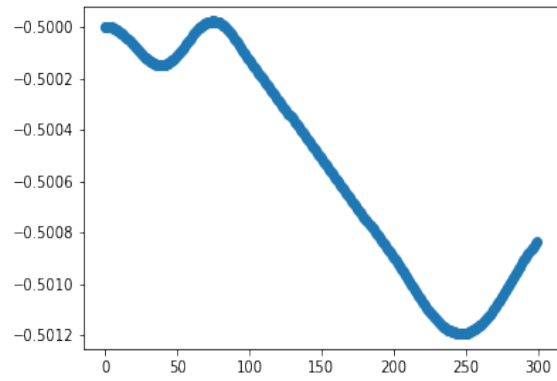


Figure 18: x -component of position

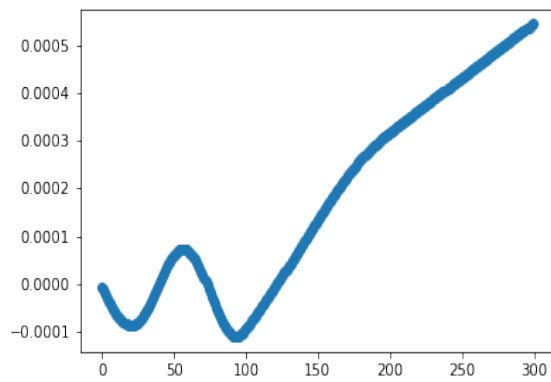


Figure 19: y -component of position

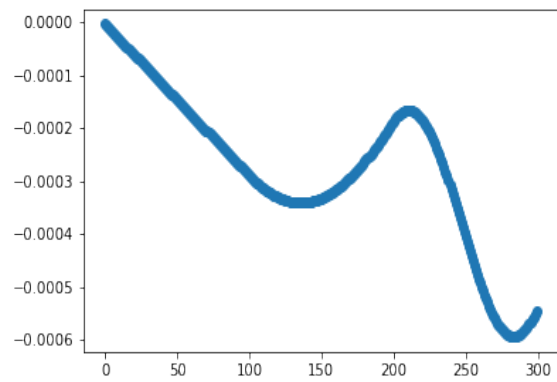


Figure 20: z -component of position

Velocity

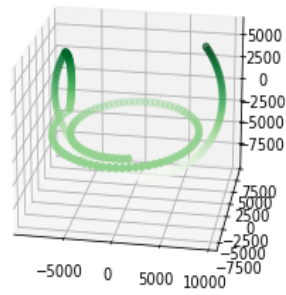


Figure 21: velocity

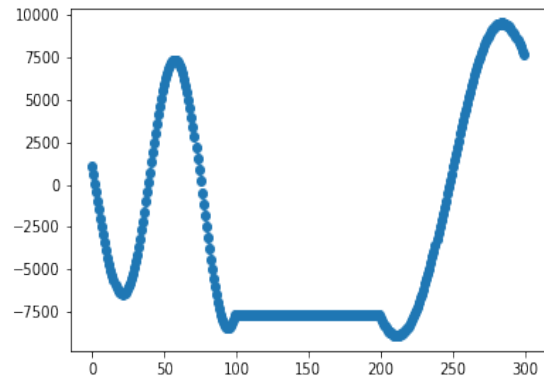


Figure 22: x -component of velocity

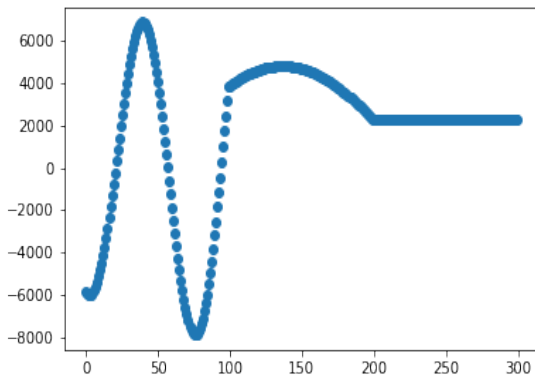


Figure 23: y -component of velocity

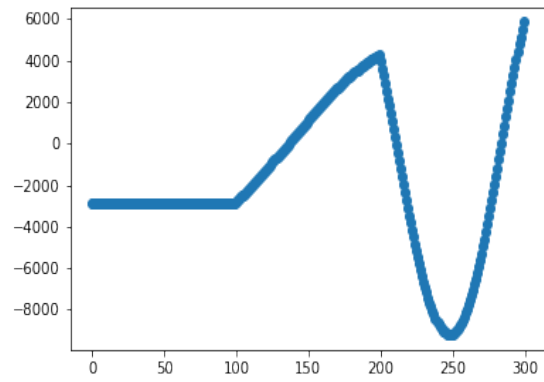


Figure 24: z -component of velocity

Multipartilces
Positions

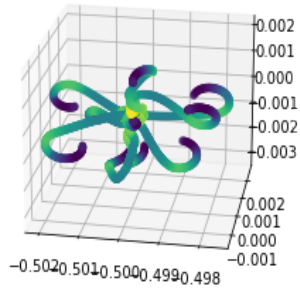


Figure 25: positions

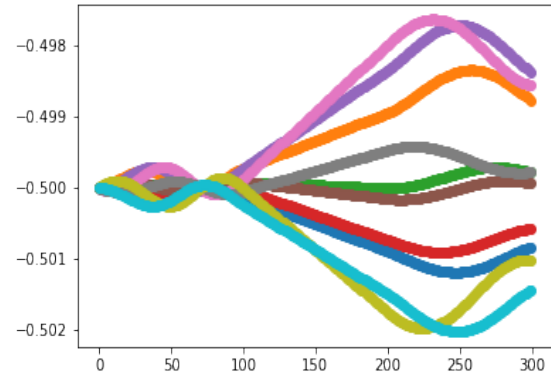


Figure 26: x -component of positions

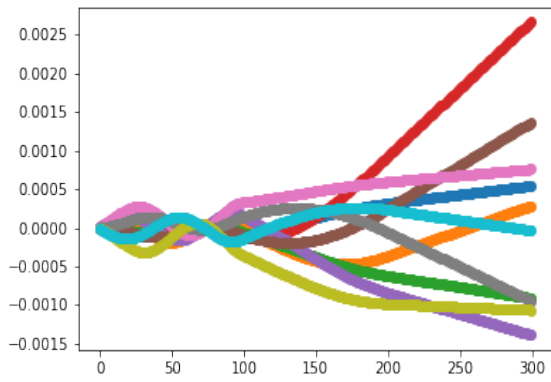


Figure 27: y -component of positions

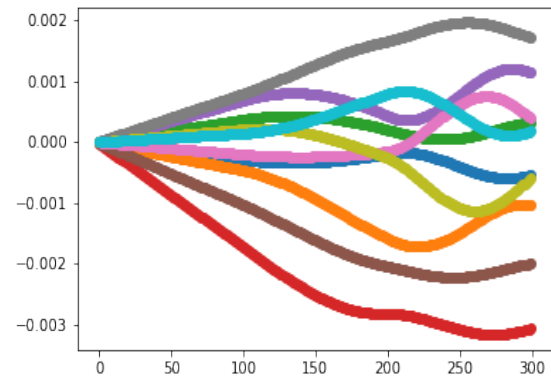


Figure 28: z -component of positions

Velocities

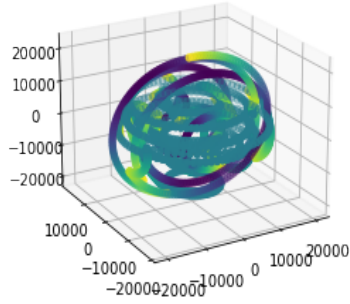


Figure 29: velocities

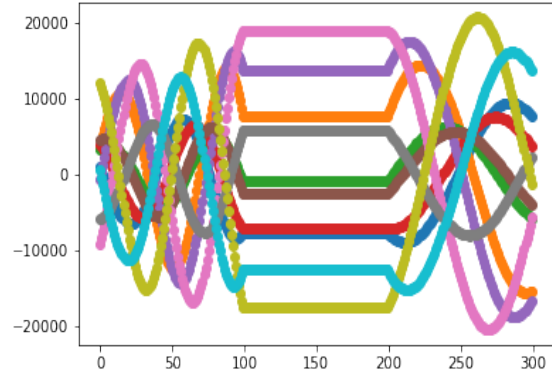


Figure 30: x -component of velocities

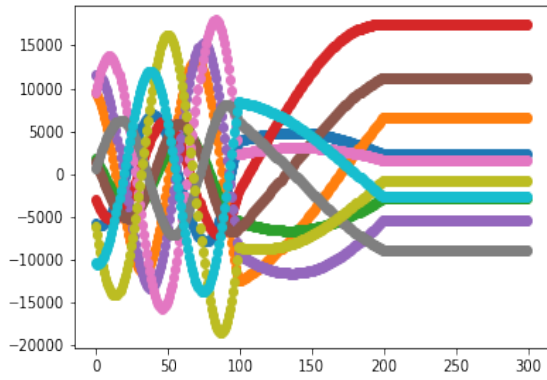


Figure 31: y -component of velocities

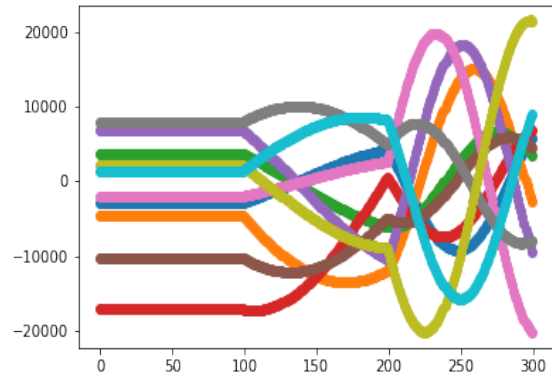


Figure 32: z -component of velocities

References

- [1] Florian LB (GitHub user). *Charged Particle Trajectories in Electric and Magnetic Fields*. Thu, 28 Jan 2016. <https://flothesof.github.io/charged-particle-trajectories-E-and-B-fields.html>