

**ETH** zürich



Tobia Claglüna :: AMAS Group

## IPPL Meeting 21.03.23

Tobia Clagliina (LSM, PSI) March 21, 2023

## Correctness of the Langevin Solver

- ullet Solver only works if drag and diffusion is added (but is noisy) o Check parameters
- Stops working after 122 timesteps without Langevin Terms (similarly if only one of the collisional terms is added)

## Possible Sources of Error:

- Constant focusing can't contain accelerating particles
- Particles leave spatial and velocity Domain
- Wrong parameter set

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## **GPU** Compatibility

- Solver / Timestepping runs now on GPU
- Data Dumping still facing issues due to incorrect memory spaces

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