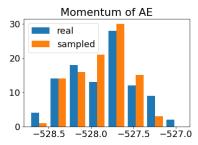
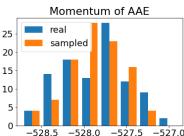
#### Bonus: measures of simulation

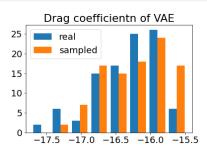
As I said before, we can run simulation on the sample mesh, calculate some measures of interest, and then comparing the distributions.

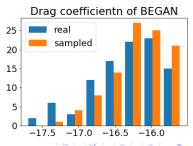
- Drag coefficient C<sub>D</sub>
- L2 of Drag force  $||F_D||_2^2 = ||\frac{1}{2}\rho v^2 C_D A||_2^2$
- Momentum mv<sub>x</sub>

# Bonus: Drag Coefficient

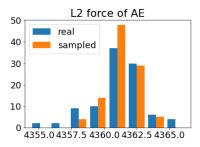


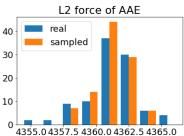


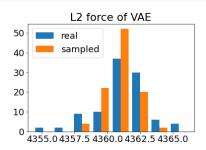


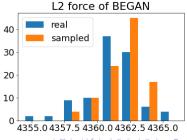


### Bonus: L2 Coefficient

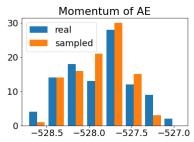


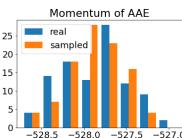


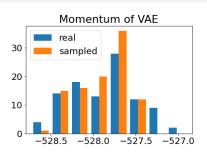


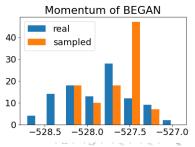


### Bonus: Momentum Coefficient









## Results

	AE	AAE	VAE	BEGAN
RelMMD(Drag)	0.04	0.05	0.05	0.06
RelMMD(Momentum)	0.04	0.05	0.06	0.14
ReIMMD(L2)	0.12	0.13	0.16	0.24