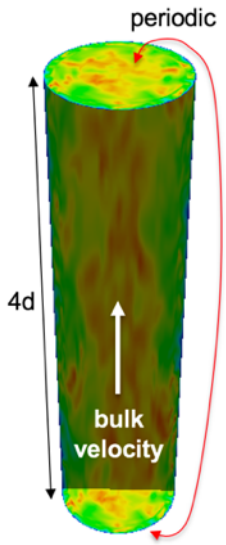
periodic
4d
bulk
velocity