

PH312: Physics of Fluids (Prof. McCoy) – Reflection

Huan Q. Bui

April 1, 2021

I don't have much to say for this week. I just think that it's very cool and satisfying to see how familiar laws like the parabolic flow profile or the linear drag relation come out of the Navier-Stokes equation. I also like our discussion of creeping flow around a spherical object. I think that technique used to solve the original PDE (taking the curl of both sides) is very neat. I don't think I would have come up with that myself either. I also look forward to working through this week's HW. The PDE-related stuff looks very interesting, and I would love to see for myself how the linear drag equation was derived.