

Seminar in Philosophy of Science
Spring 2021

Description: This class will examine a prevalent scientific methodology that has almost completely been ignored by philosophers of science. It is sometimes called a “hydrodynamic approach” to many-body systems. It focuses on properties at mesoscales in between the atomic/fundamental level and the continuum/phenomenological level. By looking at this approach we will develop a more nuanced and accurate picture of the relations between theories and models at different scales than that which is currently in favor in the philosophical literature. We will work through a new book manuscript (*A Middle Way: A Non-Fundamental Approach to Many-Body Physics*, (Forthcoming OUP)) on the topic with additional readings.