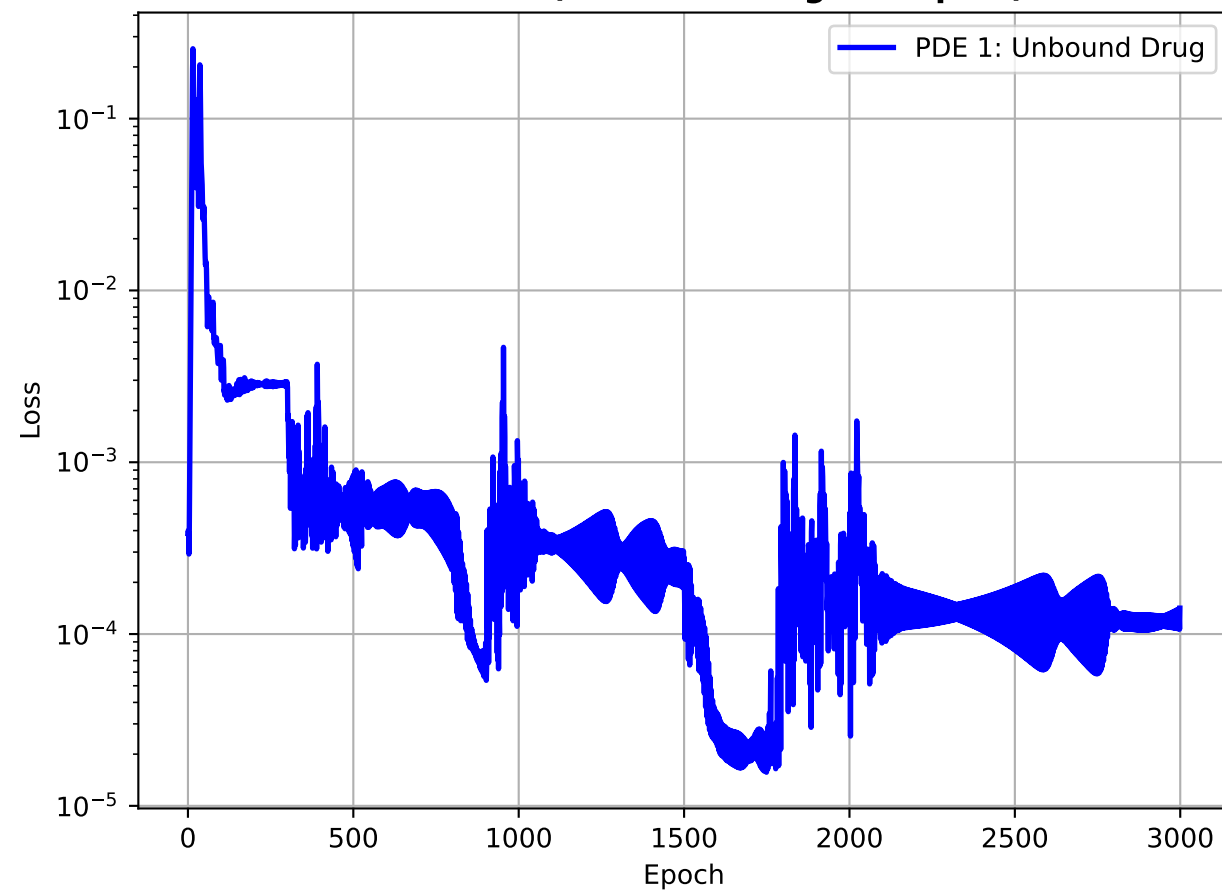
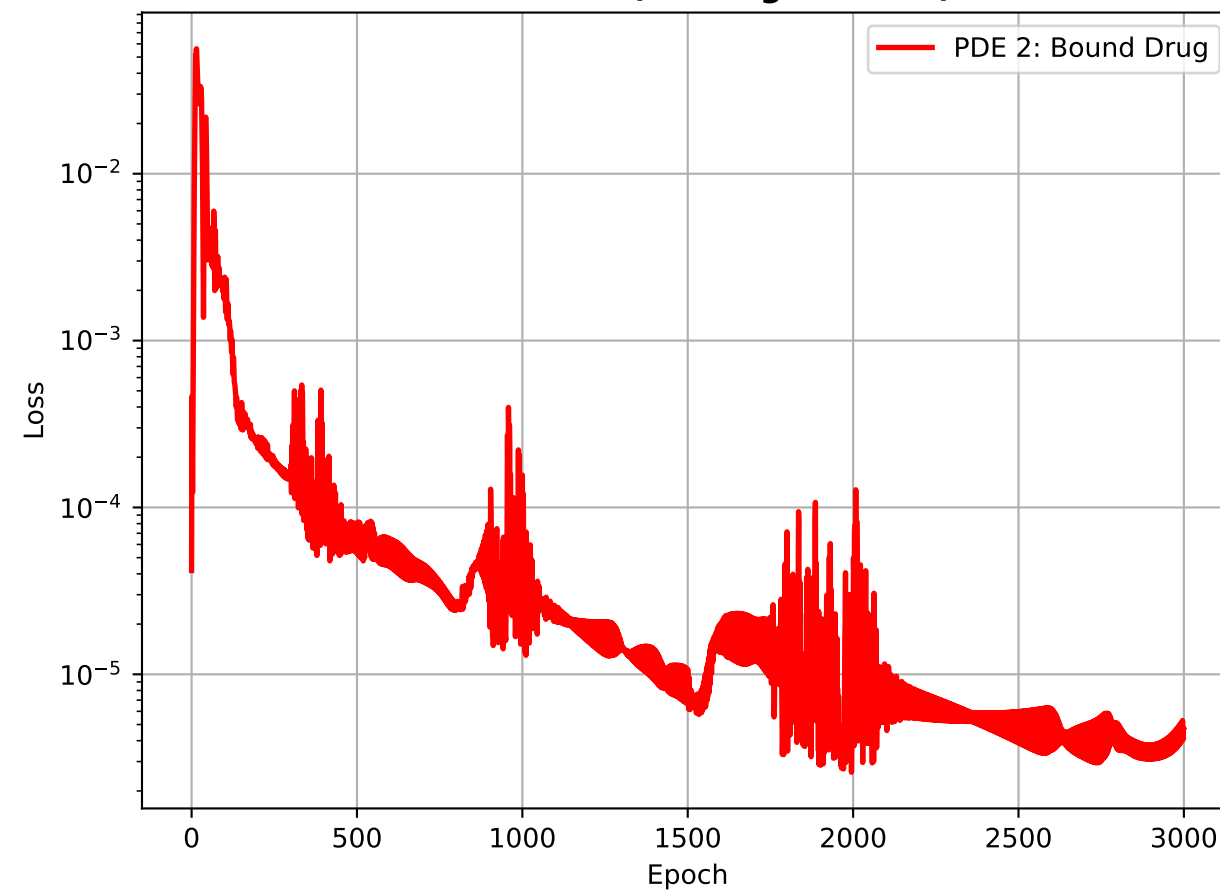


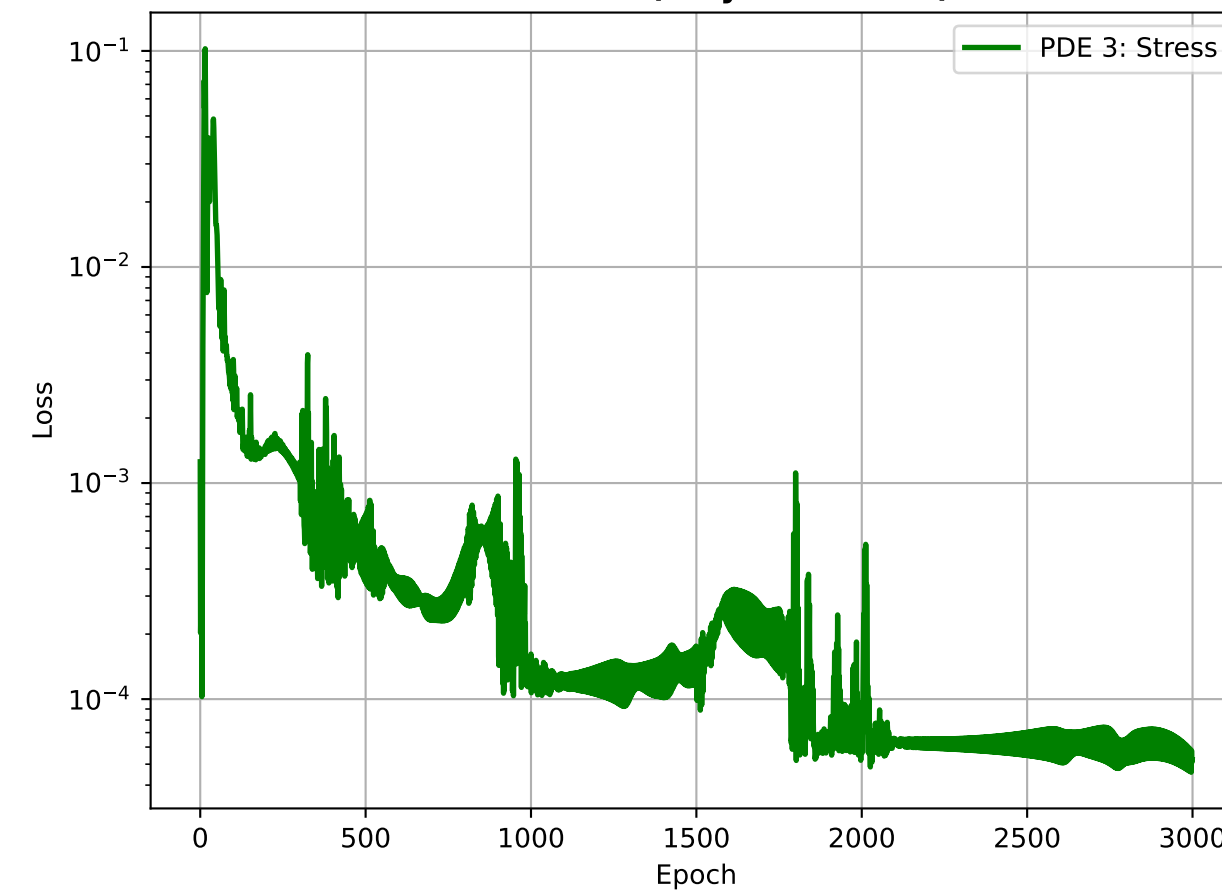
**PDE 1 Loss (Unbound Drug Transport)**



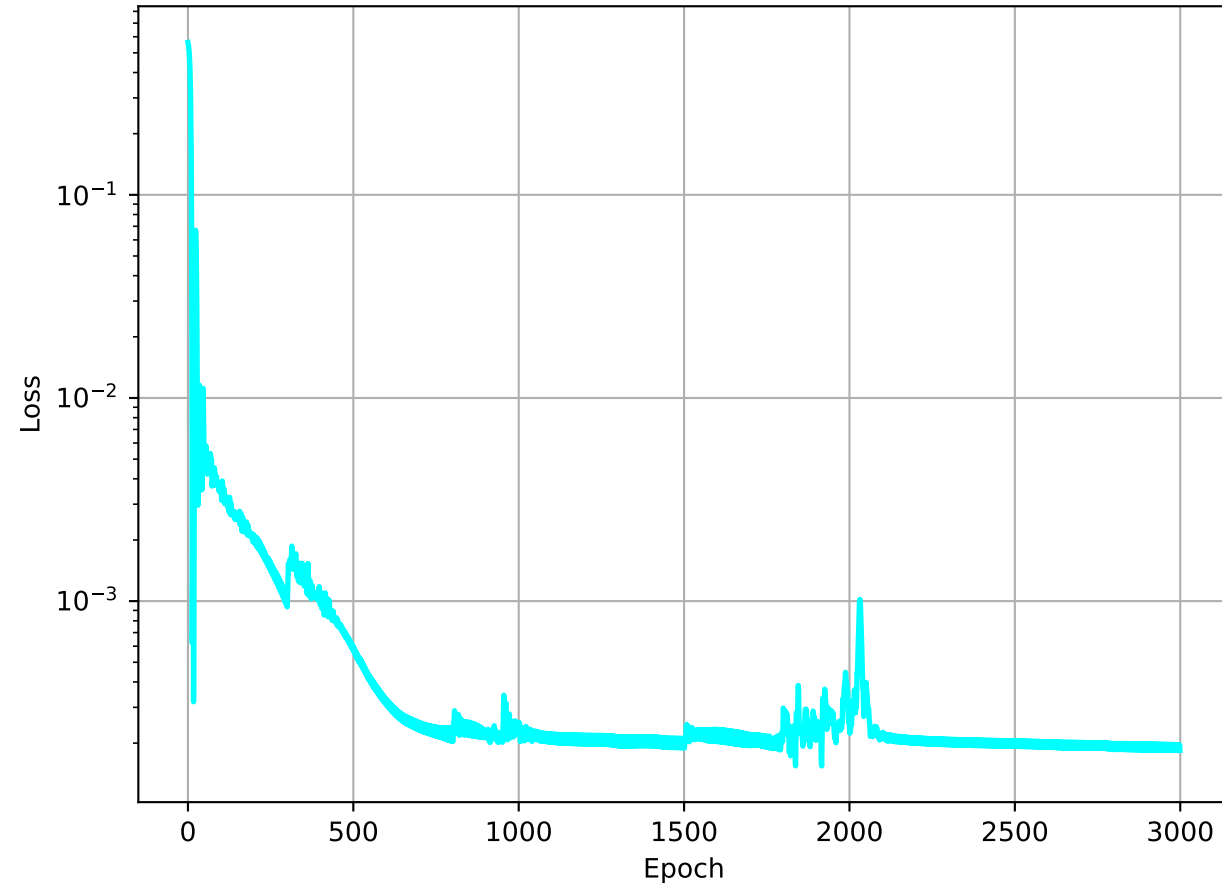
**PDE 2 Loss (Binding Kinetics)**



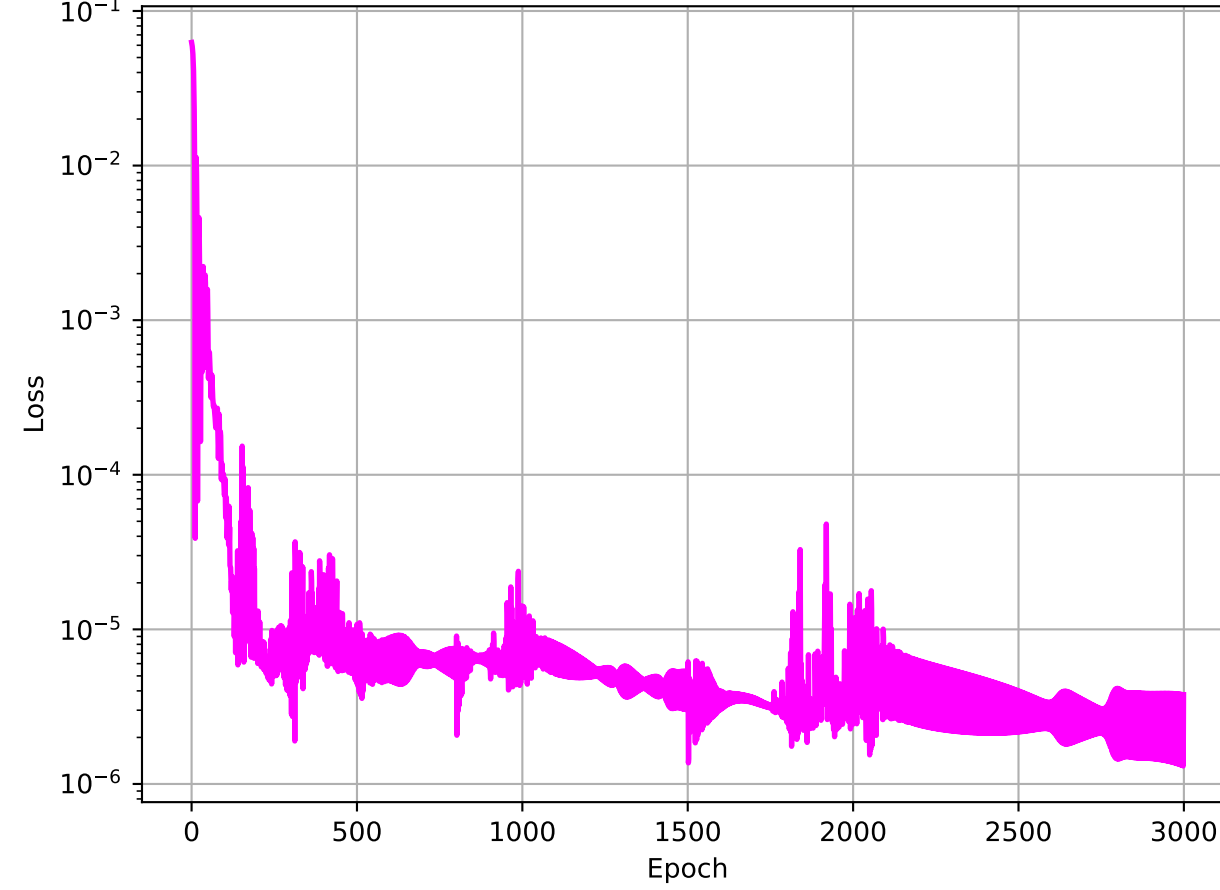
**PDE 3 Loss (Polymer Stress)**



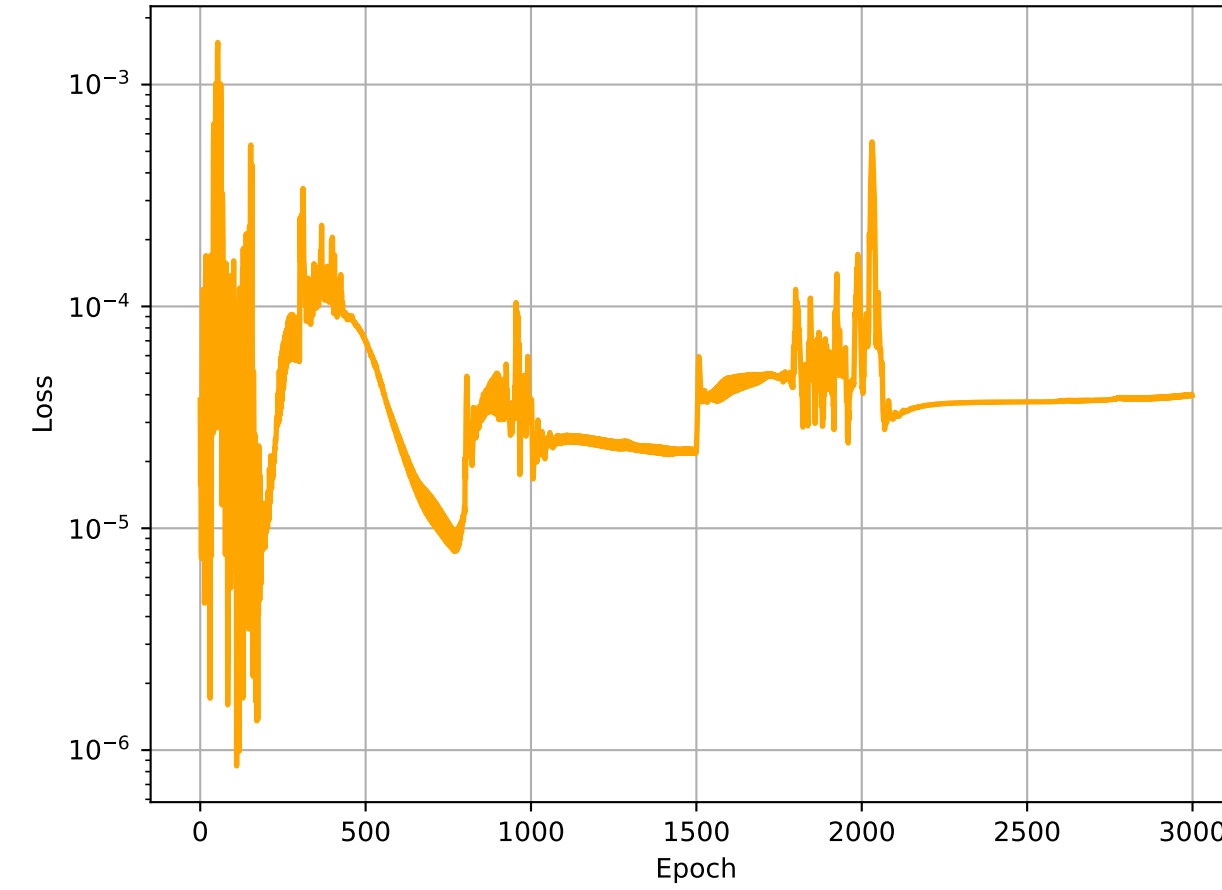
**Initial Condition: Unbound Drug**



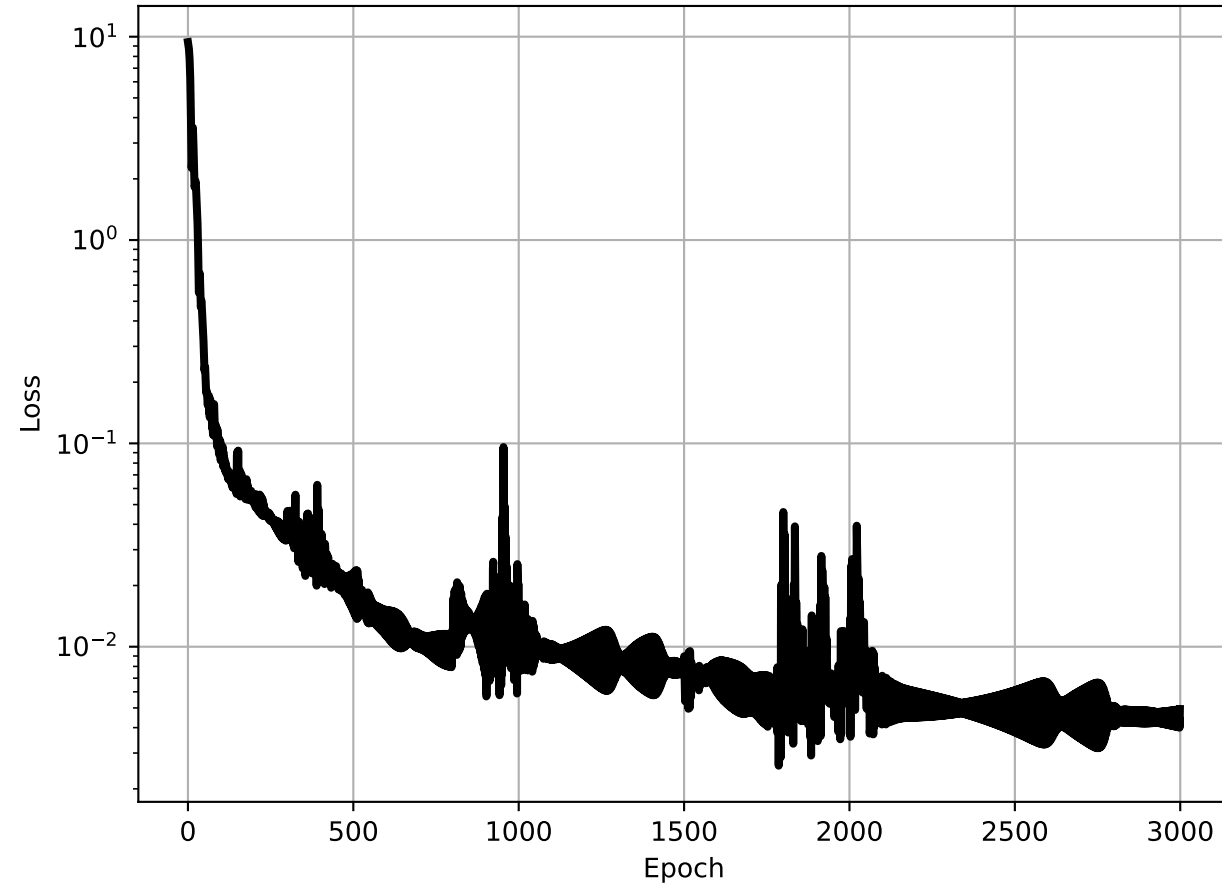
**Initial Condition: Bound Drug**



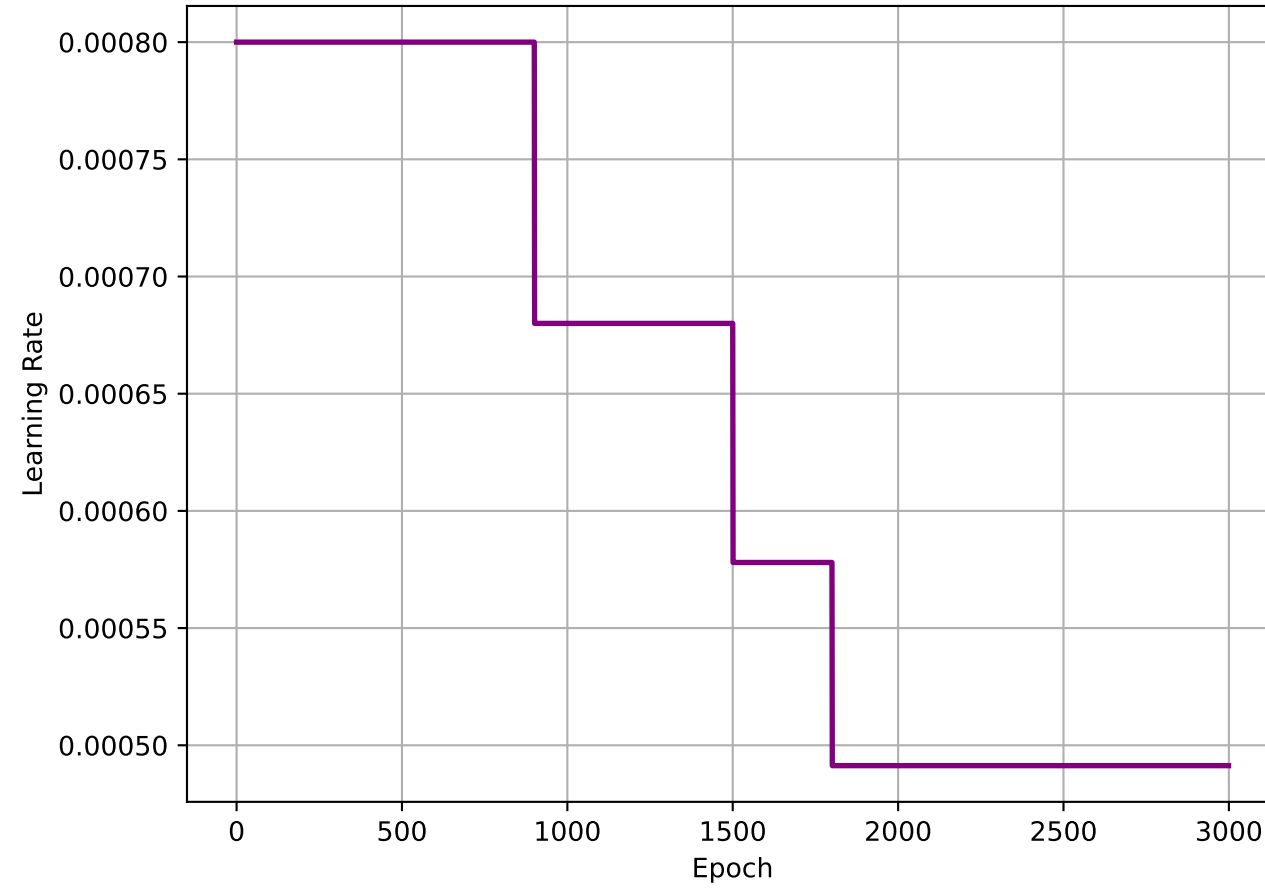
**Initial Condition: Stress**



**Total Weighted Loss**



**Learning Rate Schedule**



**Physics/Constraints Balance**

