"Under Pressure: Inspecting Transitions in Vacuum Systems"

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Abstract

We can model systems of high pressure with viscous flow and systems of low pressure with molecular flow. However, it is not known what happens inbetween the two systems. By examining the mean free path of the system, we can get an idea of how the particles interact with each other which allows us to build a model for the pressure of the system. Data from our vacuum system will be compared to a simulation in order to gather some insight on how to approach this middle system known as Knudsen flow.

