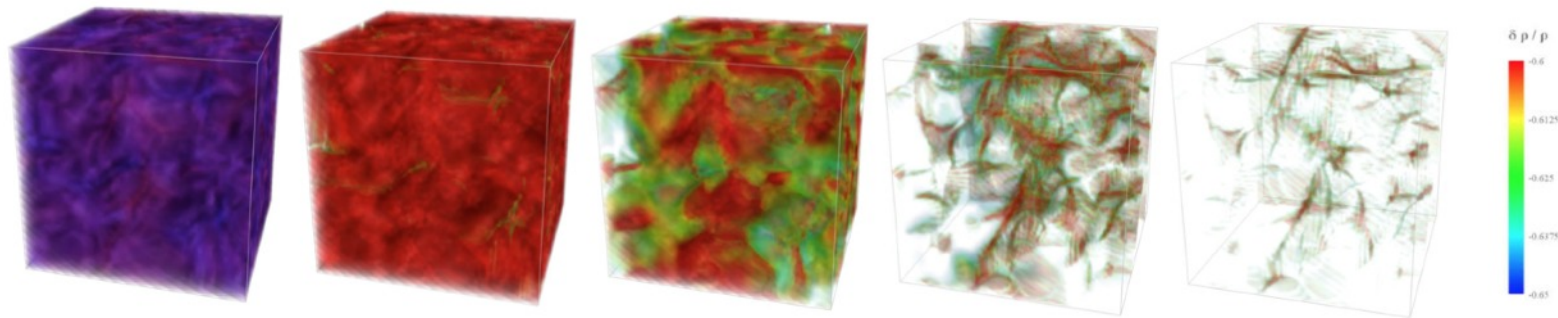


“On the Schrödinger Picture of Dark Matter”

by

Sarah Murphree '19



The mystery of Dark Matter has piqued the interest of many astronomers and physicists since the 1930s. Vera Rubin was the first to find conclusive evidence for the existence of Dark Matter in the late 1970s but since then we have only been able to describe how it behaves and the consequences of its existence. In other words, we don't know what the majority of matter is! We used to describe Dark Matter as a Weakly Interactive Massive Particles (WIMP), but lack of experimental evidence has propelled cosmologists to explore Dark Matter as a scalar field. In my talk, I will discuss the differences between two of these approaches: the Klein-Gordon equation and the Schrödinger equation.

FRIDAY, 10/26/18

12:10 pm - 1:00 pm

Hayes Hall - Room 211/213

*Lunch will be served from
11:50 to 12:10 in Hayes Hall 215.*

SENIOR CAPSTONE TALK IN PHYSICS

PHYSICS COLLOQUIUM SERIES

FALL 2018