



Department of Physics and Astronomy
FALL 2023 Colloquium Series

“Comparing Diffuse Dark Gas Tracers in the Perseus Giant Molecular Cloud”

Dr. Kendall Hall
Chico State

Stars and planetary systems form in the densest parts of giant molecular clouds, but how do such clouds come into existence? Due to Hydrogen's abundance, molecular hydrogen (two hydrogen atoms covalently bonded together) is the most abundant molecule in the universe by a factor of 10^5 . This molecule defines cloud boundaries and makes up the bulk of the interstellar medium but emits light in only the most particular of circumstances. My research aims to help refine methods of finding and quantifying this "invisible" molecule through the observation of other molecules. In this talk I will discuss the efficacy of different dark gas tracers, including C^+ , OH, CO, and CH.

Thursday, November 8, 2023

4:00 - 5:20PM

MND1015

Open & Free to all students, faculty and public