

## PHYSICS COLLOQUIUM

## The School of Natural Sciences Presents

## **Undergraduate Research Symposium**

Graduating seniors from the physics program

Friday, December 11, 2020 10:30 – 12:00 am Online via Zoom

For zoom link email: snsgradstaff@ucmerced.edu

Time: 10:45-10:57

Title: Characterization of Optically Active Defects in Monolayer MoS<sub>2</sub>

Authors: Kyle Shaw, Michael Scheibner

Time: 10:58-11:10

Title: Doppler-shifted CQD Pair Emission for Improvement of Indirect Excitonic Linewidths

Authors: Alejandro Arellano, Michael Scheibner

Time: 11:11-11:23

Title: The development of vertices on a wing in a turbulent flow

Authors: Adrian Estrella, Dustin Kleckner

Time: 11:24-11:36

Title: Dipole-Dipole Interaction in InGaAs Quantum Dot Molecules

Authors: Matthew Crawford, Michael Scheibner

Time: 11:37-11:50

Title: Topological Entropy Calculation in 2D Fluid Flows using Limited-timed Tracer Particles

Authors: Xiaolong Chen, Kevin Mitchell