

The School of Natural Sciences
Presents
Undergraduate Physics Research Symposium
Graduating seniors from the physics program

Friday, May 3rd, 2024

9:30AM – 11:30AM

Granite Pass 135 and remotely via

<https://ucmerced.zoom.us/j/82136215182?pwd=bXdIK3Y5OStBdmJUbnFkbG4zUlQ3QT09&from=addon>

9:30am-9:42am

Distributions of [Fe/H] & [α/Fe] in FIRE-2 Milky Way-Mass Galaxies Simulations

Hamad Afzal, Sarah Loebman

9:42am-9:54am

Understanding and Retention of Physics Concepts for Life Science Majors

Thomas Aguayo, Brian Utter

9:54am-10:06am

Tracking Periodic Defect Stretching in Active Nematics

Mark Elias, Kevin Mitchell

10:06am-10:18am

Creating a Standard Model for the SCG

Aaron Fuentes, Brian Utter / Antoinette Stone

10:18am-10:30am

Exploring Low Mass & Temperature White Dwarfs

Izaiha Martinez, Sarah Loebman

10:30am-10:42am

Effects of Heat Flows on Quantum Dot Structure Formation in Liquid Crystal

Nicholas McCarten, Linda Hirst

10:42am-10:54am

The Radcliffe Wave on FIRE: Hunting for Sinusoidal Gas Structures in Simulated Milky Way Disks

Biviana Oseguera, Sarah Loebman

10:54am-11:06am

Fano Rotations in Coupled Quantum Dots

Derrick Pickrel, Michael Scheibner

11:06am-11:18am

The Electrified Nature of Beryllium Under Pressure

Mark Serrata, David Strubbe

11:18am-11:30am

Statistical Analytics of Stochastic Processes and Evolution of Positional Entropy Distributions of 2-D Random Walk Ensembles

James Ticer, Dr. J. E. Sharping

For additional info contact Prof. Lin Tian ltian@ucmerced.edu