

# 2022 Summer Student Summary Seminars (S<sup>4</sup>)

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Talks will be approximately 10 minutes, with a couple of minutes for questions afterwards.

Starting at the usual time (just after 4pm) in MND1015.

Speakers: please send slide files to Dr Pettitt ([pettitt@csus.edu](mailto:pettitt@csus.edu)) by **3pm** on the day of your session.

## Session 1: September 8<sup>th</sup>

- Kyle Miller
  - *Developing a method to quantify the thermal conductivity for different solids*
- Theresa Nguyen
  - *The Nature of the Spiral Arms of Galaxies*
- Artyom Filippov
  - *Phase transitions in quantum Monte Carlo simulations of diamond lattice*
- Ernesto Ramirez
  - *Short gamma ray bursts and the relativistic jets that come from them*
- Tanisha Wilson
  - *Electrical testing for RD53A pixel modules for Inner Tracker at CERN*

## Session 2: September 22<sup>nd</sup>

- Anna Gagnebin
  - *Optimizing training framework for the VHbb decay channel with the ATLAS project at CERN*
- Wesley Eby
  - *Quantitative analysis of liquid-liquid phase separation in biological cell model systems*
- Haley Steuber
  - *Inference of dark matter in neutron star cores from gravitational wave observations*
- Kyle Granados
  - *Categorization of vector-boson fusion events at CERN*
- Hannah Redhead
  - *Modeling afterglow light curves of short gamma ray bursts*