

# ANOMALOUS MICROWAVE EMISSION AND ITS CONNECTIONS TO THE INTERSTELLAR MEDIUM

The Anomalous Microwave Emission (AME) conference aims to increase collaboration and generate new ideas among astrophysicists through lectures and discussion sessions.

AME is a ubiquitous component of the microwave sky. Peaking at frequencies 20-50 GHz, it is a major contributor to diffuse Galactic emission and has been identified in external galaxies as well. First identified in the 1990s by its spatial correlation with thermal dust emission, its origin remains unknown. Although its spectrum is broadly consistent with electric dipole radiation from a population of small, rapidly spinning dust grains, its

spatial distribution appears better correlated with thermal emission from large grains than with emission from small grains such as polycyclic aromatic hydrocarbons (PAHs). This two-day workshop will summarize the current state of AME research from both a theoretical and observational standpoint and reviews prospects for a definitive identification of AME within the interstellar medium.

## Scientific Organizing Committee

D. Chuss, B. Hensley, A. Kogut, D. Pare, D. Sponseller

## Local Organizing Committee

D. Chuss, D. Pare

## Sponsors

Villanova University's College of Liberal Arts and Sciences, the Department of Physics, and The Villanova One Sky Center for Astrophysics

## REGISTRATION



<https://ip.constantcontactpages.com/ev/reg/h3cyzu>

**JUNE 17 - 18, 2025 | VILLANOVA UNIVERSITY**

Conference URL: <https://shorturl.at/34Oyp>