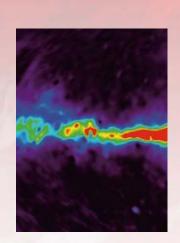


ANOMALOUS MICROWAVE EMISSION AND ITS CONNECTIONS TO THE INTERSTELLAR MEDIUM

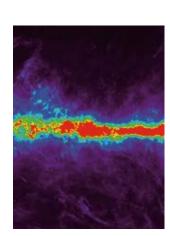


The Anomalous Microwave Emission (AME) conference aims to increase collaboration and generate new ideas among astrophysicists through lectures and discussion sessions.



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

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