

Workshop on Astrophysical Opacities



WESTERN MICHIGAN UNIVERSITY

Physics

Tuesday 01 August 2017 - Friday 04 August 2017

Western Michigan University Kalamazoo, MI, USA

Scientific Programme

Meeting structure
The WAO will consist of three days (1-3 August 2017) of invited and contributed talks and poster presentations, and one last day (4 August 2017) of data activities and code comparisons. In the latter the atomic and molecular programmes will take place separately.

Topics

- Computation of opacity tables and line lists
- Opacity laboratory measurements
- Dust opacities
- Equation of state
- Line broadening
- Atomic diffusion processes (radiative accelerations and gravitational settling)
- Opacity iron-group bump in solar and stellar models
- Stellar evolution and pulsation
- Stellar and planetary atmospheres
- Giant planets, brown dwarfs and protoplanetary disks

Atomic Opacities

Computation, experiments and applications of atomic opacities

Molecular Opacities

Computation, experiments and application of molecular opacities