2024 ZFS Workshop Agenda

Tuesday August 6

6:00 to 8:00 pm Registration and reception with appetizers: Casablanca

Wednesday August 7

8:30 – 12:00 Plenary session opening remarks, Z Facility status, and program reviews: Barcelona

- 8:30 – 9:00 Randy McKee, Sandia
  Welcome and introduction
- 9:00 – 9:30 Michael Jones, Sandia
  Z Machine update
- 9:30 – 10:00 Eric Harding, Sandia
  Diagnostic update
- 10:00 – 10:30 Break
- 10:30 – 11:00 Dan Mayes, University of Texas, Austin
  Laboratory tests of stellar interior opacity models
- 11:00 – 11:30 Thomas Gomez, University of Colorado, Boulder
  How line broadening provides insight into atomic behavior in HED plasmas
- 11:30 – 12:00 Bart Dunlap, University of Texas, Austin
  Atomic processes in white dwarf atmospheres in the laboratory

12:00 – 1:30 Lunch

1:30 – 3:45 Plenary session program reviews: Barcelona

- 1:30 – 2:00 Georges Jaar, University of Nevada, Reno
  Radiation heating and cooling, and the thermal stability of x-ray photoionized plasmas
- 2:00 – 2:30 Patty Cho, University of Texas, Austin
  Testing high-density and transient effects in photoionized plasma emission from black hole accretion
- 2:30 – 3:00 Jack Hare, Massachusetts Institute of Technology
  MARZ: MAgnetic Reconnection on Z
- 3:00 – 3:30 Derek Schaeffer, University of California Los Angeles
  Magnetized Collisionless Shocks on Z
- 3:30 – 3:45 Break

3:45 – 5:30 Break-out sessions: Barcelona, Majorca, Catalina, Valencia

Thursday August 8

8:30 – 11:50 Plenary session program reviews: Barcelona

- 8:30 – 9:00 Sarah Stewart, Arizona State University
  Formation and evolution of Earth-like and Water-World planets
- 9:00 – 9:30 Alisha Clark, University of Colorado, Boulder
  Origin of Earth's water: Role of hydrous melts at extreme P-T conditions
- 9:30 – 10:00 Steven Jacobsen, Northwestern University
  Origin of the ultra-low velocity zones atop Earth's core-mantle boundary
- 10:00 – 10:30 Break
- 10:30 – 11:00 Jim Hawreliak, Washington State University
  Advances and opportunities at the Dynamic Compression Sector
- 11:00 – 11:30 Jonathan Skidmore, First Light Fusion
  Development of a flyer driven hydrodynamic pressure amplifier system for the study of quartz Hugoniot and release on Z.
- 11:30 – 11:50 Mike Winey, Washington State University
  Shock-induced melting in diamond single crystals

11:50 – 1:15 Lunch

1:15 – 4:00 Break-out sessions: Barcelona, Majorca, Catalina, Valencia

4:00 – 4:30 Poster session setup

4:30 – 6:30 Student poster session

Friday August 9

8:30 – 9:30 Plenary session: Barcelona

- 8:30 – 9:30 Jens Schwarz, Sandia
  ZNetUS and opportunities at the Mykonos pulsed power facility

9:30 – 11:30 Break-out sessions: Barcelona, Majorca, Catalina, Valencia

11:30 – 12:00 Plenary session closing remarks: Barcelona

12:00 – 1:30 Lunch