



Taking the Temperature:
*Workshop on Statistical
Nuclear Physics for
Astrophysics and
Applications*
14-17 August
Athens, Ohio, USA

Taking the Temperature (T3): Workshop on Statistical Nuclear Physics for Astrophysics and Applications

14-17 August, Athens OH, USA

First Circular

Dear Colleagues,

We are happy to announce that “[The Taking the Temperature \(T3\): Workshop on Statistical Nuclear Physics for Astrophysics and Applications](#)” which was canceled due to Covid pandemic is rescheduled now to be held in August 14-17 2023 on the campus of Ohio University in Athens, Ohio, USA.

Statistical nuclear physics has been experiencing a resurgence in recent years due to its importance in practical calculations of reaction cross sections in different areas of basic and applied nuclear physics. It is widely used in calculation of capture reaction rates (r-, i-, p-, and s-processes) in nuclear astrophysics, isotope production calculations, and the evaluation of reaction cross sections for the ENDF nuclear data base, which is an indispensable input for the simulation of nuclear processes in different areas of nuclear technology. As such, the time is ripe to “take the temperature” of the field of statistical nuclear physics to share recent advances and promising opportunities. The specific topics of the workshop will include, but not be limited to, the following:

- Statistical model in nuclear astrophysics (r-, i-, p-, and s- processes nucleosynthesis)
- Statistical model in nuclear data evaluations
- Statistical model in isotope production and fission studies
- Statistical model in nuclear interrogation modeling
- Experimental and theoretical developments of statistical model ingredients: level density, gamma- strength functions, optical model parameters
- Limitations and connections to other models, such as direct, and pre-equilibrium ones

Submission of abstracts is open now at the workshop website inpp.ohio.edu/~t3 with a deadline of May 20 2023.

We look forward to seeing you in Athens, OH.

The local organizers (Ohio University): Alexander Voinov, Carl Brune, Tom Massey, Steven Grimes, Madappa Prakash.

International advisory committee: Jutta Escher (LLNL), Ann-Cecilie Larsen (Oslo University), Hye Young Lee (LANL), Zach Meisel (Battelle), Hendrick Schatz (MSU, MSCL), Anna Simon-Robertson (ND), Mathis Wiedekin (iThemba).

Contact: t3@ohio.edu