

## Circular 2

Dear Colleague,

We are delighted to announce that registration is now open for the Symposium on Complexity in High Energy and Statistical Physics, which will be held at the Ettore Majorana Centre in Erice, Italy, from December 1 to 7, 2024. You can register through our website: <https://sites.usp.br/chesp/>.

This symposium offers a unique opportunity to:

- Understand the relationships between renormalization and self-similarity.
- Discuss particle production mechanisms with a focus on the non-perturbative emergence of field quanta.
- Explore how the formalism of scale-free networks can potentially solve complex problems.
- Gain perspectives on the contributions of these theoretical frameworks to black hole physics, cosmology, and other contemporary approaches to complex systems.

Key topics include:

- Foundations and Applications of Nonadditive Entropies
- Nonadditive Entropies and Complex Systems
- Scale-free Systems and Networks, (Multi)fractals, Self-similar Systems, Renormalization Group of QFT
- Electromagnetic Plasma
- The Bootstrap Approach to QFT
- Nonextensive Statistics and Transport Processes
- Nonextensive Statistics in Cosmology
- Perspectives in Hadron Physics
- Perspectives in High-Energy Physics
- Additional information about the symposium is available on our website.

We appreciate your assistance in promoting this event to interested researchers and students.

Sincerely,

Symposium Directors:

Airton Deppman, Evaldo Curado, and Ignacio de Bediaga e Hickman