

PHYSICS SEMINAR

*Department of Physics and Astronomy
East Tennessee State University*

Physics and Astronomy



Nick Eidietis

(Type One Energy)

will speak on ...

‘Stellarator Path to Fusion Energy’

Abstract

After decades of research, a burgeoning nuclear fusion industry has arisen to bring the power of the stars to the grid. Type One Energy is pursuing a particular technological path to a fusion power plant, called the “stellarator”, right here in East Tennessee. This seminar provides a tutorial on the practical development of stellarator fusion technology. It begins with the physical concepts that underlie the fusion process and the basic methods for controlling it at a human scale. We then explore where the stellarator fits within the broad taxonomy of fusion confinement technologies and the motivations for pursuing it. This is followed by a breakdown of the physical components of the stellarator, examining the function that each part plays in producing and harnessing the power of nuclear fusion within a uniquely extreme environment. We conclude with a description of Type One Energy’s Project Infinity, which aims to bring a stellarator fusion power plant to East Tennessee by the mid 2030’s.



Monday, October 26, 2026, 4:20 PM
Room 265 (D.M. Brown Hall)

