



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 4337

Type: **Invited Speaker / Conférencier(ère) invité(e)**

Gravitational Laboratories for Nuclear Physics

Wednesday, May 29, 2024 11:00 AM (30 minutes)

I will discuss how recent astrophysical observations of neutron stars, together with advances in statistical methods, allow us to probe the behavior of matter at the highest densities anywhere in the universe while self-consistently controlling the number and impact of theoretical uncertainties required a priori. We will discuss key take-aways from the astrophysical data and what to watch for over the next few years.

Keyword-1

neutron stars

Keyword-2

gravitational waves

Keyword-3

Author: Prof. ESSICK, Reed (Canadian Institute for Theoretical Astrophysics)

Presenter: Prof. ESSICK, Reed (Canadian Institute for Theoretical Astrophysics)

Session Classification: (DTP/DNP) W2-1 Computational Advances in Astrophysics and Cosmology I | Avancées informatiques en astrophysique et en cosmologie I (DPT/DPN)

Track Classification: Symposia Day (Wed May 29) / Journée de symposiums (Mercredi 29 mai): Symposia Day (DTP/DNP - DPT/DPN) - Computational Advances in Astrophysics and Cosmology / Avancées informatiques en astrophysique et en cosmologie