




CompOSE: a repository for neutron star equations of state and transport properties

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The CompOSE Topical Issue is a compendium of several works on neutron star equations of state (EoS) and transport properties related to the online repository CompOSE (CompStar Online Supernovae Equations of State).

CompOSE provides data tables for different state-of-the-art EoSs ready for further usage in astrophysical applications, nuclear physics and beyond, that is, for compact stars, core-collapse supernovae and neutron-star mergers (see <https://compose.obspm.fr/>). The main services that are offered via the website can be summarized as follows. First, it offers a collection of data tables in a flexible and easily extendable

related properties as well as the indicated references to the original work should allow each user to choose the best adapted EoSs concerning composition and properties. Second, it provides software to extract and interpolate these data and to compute additional quantities. Finally, it features webtools to generate EoS tables that can be customized to the needs of the users and allow these same users to illustrate dependencies of various EoS quantities in different graphical forms.

The articles that are part of the CompOSE Topical Issue have been developed under the umbrella of CompOSE. An