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Neutron-star-crust properties at zero and finite temperature

The crust of a neutron star is important for many astrophysical phenomena such as the cooling of the star and its transport properties. I will present calculations of the neutron-star crust within a compressible liquid drop model both at zero and finite temperature. I will also discuss results for neutron-star-crust elastic properties, such as the shear modulus, and their associated uncertainties, obtained within a bayesian analysis.

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