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*On TFDW-type models and an Ohta-Kawasaki model*

The Thomas-Fermi-Dirac-Von Weizsäcker (TFDW) model is a physical model describing ground-state electron configurations of many-body systems. On the other hand, the Ohta-Kawasaki model arises in the context of diblock copolymer melts. In this talk, we discuss results concerning the compactness of minimizing sequences of TFDW-type models and a variant of the Ohta-Kawasaki model.