

Abstract Submitted
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The Wigner effect for three interacting bosonic dipoles in a harmonic trap SHALVA TSIKLAURI, JOSEPH GANSER, The City University of New York, BMCC — Three indirect bosonic dipoles are treated using the hyperspherical function method, providing numerical confirmation that the Wigner crystallization effect persists for strong confinement. Our results show that the Wigner features become universal, with a known dipole-dipole parameter and also, the dipolar interaction is extremely valuable for the study of Wigner state. This research is supported by Research PSC- CUNY Grant: award # 66373-00-44.

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