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On the phase diagram of the extended Hubbard model with intersite density-density interactions in the atomic limit

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AUTHORS: Konrad Jerzy Kapcia and Stanislaw Robaszkiewicz
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HIGHLIGHTS

- Phase diagrams of a simple effective model for charge-order insulators is studied.
- The model includes on-site and inter-site (NN and NNN) density-density interactions.
- The phase diagrams as a function of the chemical potential are derived.
- The diagrams have complex structure with a plethora of various multicritical points.
- Obtained results are exact in the high-dimensions limit.

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