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Duality in an asset exchange model for wealth distribution

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Highlights for Revised Submission PHYSA-171891R1

- We demonstrate duality in the phase behavior of an asset-exchange model of wealth distribution.
- The duality is associated with a second-order phase transition between a classical wealth distribution and a partially wealth-condensed state.
- The solution to the model is derived analytically, both from the microscopic statistical process describing the model, and from the Fokker-Planck equation governing the agent density function.