Geometry of a Lagrangian Manifold in Thermodynamics (Principle of Minimizing the Thermodynamical Potential and Thermodynamical Inequalities. Analysis of the Gibbs Method of Geometric Picture of Thermodynamics)

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Abstract.
A class of Lagrangian manifolds is presented, together with a groupoid of symplectic transformations preserving the class of Lagrangian manifolds, for which the local property of stability is related to the global property to define an essential point on the corresponding Lagrangian manifold.

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