concepts in symplectic geometry

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Linear theory

1. symplectic vector space, symplectic matrix

2. symplectic complement

Symplectic manifolds

1. symplectic manifold (`http://planetmath.org/ExamplesOfSymplecticManifolds`examples)

2. Lagrangian submanifold, isotropic submanifold

3. symplectic vector field

4. symplectomorphism, canonical transformation

5. Hamilton equations

6. `http://planetmath.org/DarbouxsTheoremSymplecticGeometry`Darboux's Theorem

7. Poisson bracket

8. Moser's theorem

9. Gray stability theorem

10. momentum map

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