

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on May 2, 2026 2:26:49 PM, was last modified on May 2, 2026 2:39:03 PM, and was exported on September 7, 2026 3:31:18 PM.

Symplectic capacities

Definition. Symplectic pre-capacities

A **symplectic pre-capacity** is a map

$$c : \text{Sym}(\text{bd}) \rightarrow [0, \infty]$$

such that

- (*monotonicity*) if there is a symplectic embedding $\Phi : (M_1, \omega_1) \rightarrow (M_2, \omega_2)$ then

$$c(M_1, \omega_1) \leq c(M_2, \omega_2)$$

- (*conformality*) for all $\alpha \in \mathbb{R} \setminus \{0\}$ we have

$$c(M, \alpha\omega) = |\alpha|c(M, \omega)$$

Current note has 0 direct children and 0 total descendants.

- [structures based on sets](#)
 - [manifolds](#)
 - [ℝ-manifold symplectic](#)
 - [Symplectic capacities](#)

And it has 8 siblings.

- [structures based on sets](#)
 - [manifolds](#)
 - [ℝ-manifold symplectic](#)
 - [Symplectic capacities](#)
 - [Compatible almost complex structure on a symplectic manifold](#)
 - [Generating symplectomorphisms](#)
 - [Symplectic homogeneous manifolds](#)
 - [Quantization of symplectic manifolds](#)
 - [Lagrangian submanifolds of a symplectic manifold](#)
 - [Symplectic Lie group action on a symplectic manifold](#)
 - [Hamiltonian vector fields on a symplectic manifold](#)