

**Lanzat, Sergei**

**Quasi-morphisms and symplectic quasi-states for convex symplectic manifolds.** (English)

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**Summary:** We use quantum and Floer homology to construct (partial) quasi-morphisms on the universal cover  $\widetilde{\text{Ham}}(M, \omega)$  of the group of compactly supported Hamiltonian diffeomorphisms for a certain class of nonclosed strongly semi-positive symplectic manifolds  $(M, \omega)$ . This leads to a construction of (partial) symplectic quasi-states on the space  $C_{cc}(M)$  of continuous functions on  $M$  that are constant near infinity. The work extends the results by Entov and Polterovich which apply in the closed case.

**MSC:**

53D40 Symplectic aspects of Floer homology and cohomology

Cited in **6** Documents

**Full Text:** [DOI](#) [arXiv](#)