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PUBLICATIONS AND PREPRINTS

The list together with links is also at: [Publication list](#)

Geometry topology and dynamics

Quantum characteristic classes and the Hofer metric, Geometry & Topology, 12 (2008), pp. 2277–2326.

Virtual Morse theory on $\Omega\text{Ham}(M, \omega)$, J. Differ. Geom., 84 (2010), pp. 409–425.

Bott periodicity and stable quantum classes, Selecta Math.(2013) 19: 439-460

Gromov K-area and jumping curves in \mathbb{CP}^n , 2012, Algebraic and Geometric Topology

Proof of the index conjecture in Hofer geometry, Math. Res. Letters, Volume 20 (2013), 981-984

Morse theory for the Hofer length functional, Journal of topology and analysis, 08/2013; 06(02),

On the injectivity radius in Hofer geometry, with Francois Lalonde, Electronic Research announcements, Vol 21, 177-185, 2014

Yang Mills theory and jumping curves, Intern. Journ. of Math., 26, 2015

On the Hofer geometry injectivity radius conjecture, International Mathematics Research Notices 2016; doi: 10.1093/imrn/rnw023

Floer theory and topology of $\text{Diff}(S^2)$, Journal of symplectic geometry, vol 3, 2017

Extended Fuller index, sky catastrophes and the Seifert conjecture, International Journal of Mathematics, 2018, accepted

Twisted and untwisted K-theory quantization and symplectic topology, (with Egor Shelukhin), JSG, 2018, accepted

The referee process for the following three is almost completed.

Global Fukaya category and quantum Novikov conjecture I, arxiv preprint, submitted

Global Fukaya category and quantum Novikov conjecture II, arxiv preprint, submitted

Gromov-Witten theory of a locally conformally symplectic manifold and the Fuller index, arxiv preprint, 2016

Computer science and game theory

Noncomputability of human intelligence, arxiv preprint

Time symmetric Go, arxiv preprint, not intended for publication at this moment

Not ready for publication

Spectral geometry of the group of Hamiltonian diffeomorphisms, arxiv preprint

On configuration spaces of stable maps, arxiv preprint