

MASTER THESIS PROJECT: SMALL POSITIVE LOOPS OF CONTACTOMORPHISMS

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The existence of a positive loop of contactomorphisms is the standard criterium to disprove orderability of a contact manifold. It has been recently shown [CPS] that the existence of positive loops with small C^0 -energy is obstructed in 3 dimensional overtwisted manifolds. The goal of this Master thesis is two fold. In one hand, to recall and explain some of the recent results concerning positive loops of contactomorphisms. In the other, to extend [CPS] to higher dimensional overtwisted manifolds.

REFERENCES

[CPS] Casals, R.; Presas, F.; Sandon, S., *Small positive loops on overtwisted manifolds*. J. Symplectic Geom. 14, No. 4, 1013–1031 (2016).