

Length product of homologically independent closed geodesics

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In this talk, we will consider generalizations of Minkowski's second theorem to Riemannian and Finsler manifolds. For example we will explain why graphs, Finsler tori or Finsler surfaces with normalized volume always admit a \mathbb{Z}_2 -homology basis induced by closed geodesics whose length product is bounded from above by some constant depending only on their topology. Based on a joint work with S. Karam and H. Parlier.

References

- [1] FLORENT BALACHEFF, STEVE KARAM, HUGO PARLIER, *Minimal length product over homology bases of manifolds*, arXiv1810.08058