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Hongbin Sun* (hongbins@princeton.edu), Department of Mathematics, Princeton University, Fine Hall, Washington Road, Princeton, NJ 08540. *A Transcendental Invariant of Pseudo-Anosov Maps.*

For each pseudo-Anosov map, we will associate it with a \mathbb{Q} -submodule of \mathbb{R} . This invariant is defined by interaction between Thurston norm and dilatation of pseudo-Anosov map. We will develop a few nice properties of our invariant and give a few examples to show it can be nontrivial. These nontrivial examples give negative answer to a question asked by McMullen. (Received January 25, 2013)