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Erwan Lanneau*, Centre de Physique Theorique, 163 avenue de Luminy, case 907, 13010
Marseille, France. *On the minimum dilatation of pseudo-Anosov diffeomorphisms on surfaces of
small genera.*

I will explain how one can calculate the least dilatation of pseudo-Anosov diffeomorphisms that stabilize an orientable measured foliation on a surface of genus less than five. These techniques also provide a calculation of the least dilatation of pseudo-Anosov diffeomorphisms on a genus two surface. This is a joint work with Jean-Luc Thiffeault. (Received March 02, 2009)