

Essential Immersed Surfaces in Closed Hyperbolic 3-Manifolds

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Given any closed hyperbolic 3-manifold M and $\epsilon > 0$, we find a closed hyperbolic surface S and a map $f: S \rightarrow M$ such that f lifts to a $1 + \epsilon$ -quasi-isometry from the universal cover of S to the universal cover of M . This is joint work with Vladimir Markovic.