Geometrization of sub-hyperbolic semi-rational branched coverings

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Abstract: Given a sub-hyperbolic semi-rational branched covering of the sphere, which is not CLH-equivalent to a rational map, it must have the non-empty canonical Thurston obstruction. By using this canonical Thurston obstruction, we will discuss how to decompose such a dynamical system into several sub-dynamical systems. Then we will show that each of these sub-dynamical systems is either a post-critically finite type branched covering or a sub-hyperbolic semi-rational type branched covering.

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