

QUASI-SYMMETRIC CONJUGATION OF CIRCLE MAPS WITH A FLAT INTERVAL

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In this talk we will explore the question of quasi-symmetric conjugation of C^2 weakly order-preserving circle maps with a flat interval. Under the assumption that two maps have a common rotation number of bounded type and that the bounded geometry holds, we construct a quasi-symmetric homeomorphism of the circle which is a conjugation on the non-wandering set of the studied maps. The natural extension of such an homeomorphism into a global quasi-symmetric conjugation is made difficult by certain unexpected distortion properties of our maps which will also be discussed. Finally, a more general setting of circle functions with unbounded rotation numbers will be presented. We will discuss problems arising in this case and some possible developments.