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## Finite orbits of the mapping class group action on the character variety of the punctured sphere in $SL(2, \mathbb{C})$

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We classify finite orbits of the mapping class group action of the punctured sphere in  $SL(2, \mathbb{C})$ , relying on the case of the 4-punctured sphere done by Lysovyy and Tykhyy, and on a careful understanding of compact relative character varieties of the punctured sphere in  $SL(2, \mathbb{R})$ . This is joint work with Arnaud Maret.

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