

On the unirationality of Hurwitz spaces

In this talk I will discuss about the unirationality of the Hurwitz spaces $H_{g,d}$ parametrizing d -sheeted branched simple covers of the projective line by smooth curves of genus g . I will summarize what is already known and formulate some questions and speculations on the general behaviour. I will then present a proof of the unirationality of $H_{12,8}$ and $H_{13,7}$, obtained via liaison and matrix factorizations. This is part of two joint works with Frank-Olaf Schreyer.

Les résultats dont je voudrais parler sont contenus dans les travaux "Matrix factorizations and curves in \mathbb{P}^4 " (<https://arxiv.org/abs/1611.03669>) et "Unirational Hurwitz spaces and liaison" (en préparation).

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