

UNIRATIONALITY OF HURWITZ SPACES

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ABSTRACT. The Hurwitz space $\mathcal{H}_{d,g}$ is the space whose points correspond to maps $C \rightarrow \mathbb{P}^1$ of degree d from curves C of genus g . In the talk I will report on our knowledge, what we know about the unirationality of these spaces and will explaining the unirationality proofs in some extremal cases. I will present a conjecture on the range of pairs (d, g) , where I expect that $\mathcal{H}_{d,g}$ is unirational.