# Maximal rank divisors on $\overline{\mathcal{M}}_{g, n}$ 

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#### Abstract

We compute the class of the effective divisors on $\overline{\mathcal{M}}_{g, n}$, which are set theoretically equal to the locus of moduli points $\left[C, p_{1}, \ldots, p_{n}\right.$ ] where $C$ lies on a quadric under the map given by the linear series $\left|K_{C}-p_{1}-\cdots-p_{n}\right|$. Using this divisor class we show that the moduli spaces $\overline{\mathcal{M}}_{16,8}$ and $\overline{\mathcal{M}}_{17,8}$ are of general type. We also note that the divisor classes computed in the papers [10] and [11] can be used to show that $\overline{\mathcal{M}}_{12,10}$ is of general type.

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