

sl_2 conformal block divisors and the nef cone of $\bar{M}_{0,n}$

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We show that sl_2 conformal block divisors do not cover the nef cone of $\bar{M}_{0,6}$, or the sl_2 -invariant nef cone of $\bar{M}_{0,9}$. A key point is to relate the nonvanishing of intersection numbers between these divisors and F-curves to the nonemptiness of some explicitly defined polytopes. Several experimental results and some open problems are also included.

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