ALGEBRA AND NUMBER THEORY
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Picard Groups of Stacky Curves

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Abstract: In Mumford's famous 1965 paper Picard Groups of Moduli Problems, he computed the Picard group of the moduli stack of elliptic curves, a stacky curve over the affine j-line. While Mumford relies heavily on the moduli description, much can be said about the Picard group of a stacky curve by understanding its geometry alone. In this talk, I will give and explain an exact sequence which relates the Picard group of a stacky curve to the Picard group of its coarse space and the gerbe class over its rigidification

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