



CIMAT

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REGISTRATION FORM

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TITLE: Exact and Frobenius structures on categories of vector bundles

ABSTRACT: My talk concerns joint work with H. Meltzer and D. Kussin. If an exact category has enough projectives, its exact structure is completely determined by its class of projectives (supposed to be essentially small). For the category of vector bundles on a weighted projective line we determine all exact structures with enough projectives (or injectives), where the indecomposable projectives consist of line bundles. The condition results in a kind of ampleness. Among others, our results have applications to singularity theory, Cohen-Macaulay modules and the two-flag problem of nilpotent operators.

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