

Clifford indices of vector bundle on algebraic curves.

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Abstract

The classical Clifford index of an algebraic curve is an invariant of the curve which is defined via line bundles. It gives an information about how much the classical Clifford's theorem can be improved for this curve. Jointly with Peter Newstead we recently defined Clifford indices for vector bundles of arbitrary rank on an algebraic curve. In the talk I will give their definition, outline some first properties and results, express Mercat's conjecture in terms of them and give counter examples to this conjecture.