



# The classification of semi-stable plane sheaves supported on sextic curves

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We classify all Gieseker semi-stable sheaves on the complex projective plane that have dimension 1 and multiplicity 6. We decompose their moduli spaces into strata which occur naturally as quotients modulo actions of certain algebraic groups. In most cases we give concrete geometric descriptions of the strata.

Comments: Corrections to the proofs of 3.1.6 and 5.1.6. Contains short versions of my previous three submissions plus the last case of multiplicity six sheaves. To appear in the Kyoto Journal of Mathematics. arXiv admin note: text overlap with [arXiv:1109.3918](#), [arXiv:1105.0112](#), [arXiv:1202.0065](#)

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MSC classes: 14D20, 14D22

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