

Moduli components of semistable rank two sheaves with odd determinant and small charge on projective space

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We study the moduli space of semistable rank two semistable torsion-free sheaves with Chern classes $(c_1, c_2, c_3) = (-1, 2n, m)$ on the projective 3-space. We give a complete description of all irreducible components of this moduli space in the case $(c_1, c_2, c_3) = (-1, 2, m)$ for non-negative values for m ; all components turn out to be rational. We also prove that this moduli space is connected. This is a joint work with Ch. Almeida and M. Jardim.

Primary author: TIKHOMIROV, Alexander S. (HSE University, Moscow, Russia)

Presenter: TIKHOMIROV, Alexander S. (HSE University, Moscow, Russia)