

ADMISSIBLE SHEAVES IN CP^3

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Admissible coherent sheaves on CP^3 were first introduced by Drinfeld & Manin, in relation with anti-self-dual connections on the 4-sphere and twistor theory. They have shown that every locally-free admissible sheaf can be obtained as the cohomology of a monad. In this paper, we study admissible sheaves from a broader point of view, generalizing Drinfeld-Manin's results. The main theorem is that the moduli space of framed admissible torsion-free sheaves on CP^3 of rank r and second Chern class c is a smooth complex manifold of dimension $4rc$. We also present a few results concerning reflexive and locally-free admissible sheaves.