

**STERIAN Alexandru**, *Moduli Spaces of Rank-3 Vector Bundles on Hirzebruch Surfaces with  $c_1 = \sigma + 2f$*

**Abstract**

We study the nonemptiness, the irreducibility, the smoothness and the unirationality of the moduli spaces of rank 3 stable vector bundles on a Hirzebruch surface with  $c_1 = \sigma + 2f$ .

**Keywords:** *vector bundles, moduli spaces, ruled surfaces.*

AMS Classification: 14F05, 14J60, 14J26.