

In this Msc project, we set one of the results of this thesis. This chapter consists of two sections. **In section 2.1**, we give some notation and definitions, which will be used in later section. **In section 2.2**, by using the results of Girbau [8] and theorem 8.3 of [17], we prove that if M is a compact Kähler manifold of complex dimension n and if its first Chern class is semi- positive at any point of M and of rank $n - 1$ at one point of M , then M is a Hodge manifold. Therefore, by using the result of Kodaira [14], M is projective algebraic, i.e.; M can be embedded into $P^N(\mathbb{C})$ for some integer N . This result is obtained in [1] by a different method.