

On Einstein Lagrangian submanifold of a complex projective space

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**Abstract**

In the present talk I would like to the parallelism of an Einstein minimal Lagrangian submanifold  $M$  of a complex projective space. We show that if  $M$  is complete, then  $M$  is parallel and  $M$  is one of the following conditions holds: a)  $M$  is totally geodesic, b)  $M$  is a finite Riemannian covering of a flat torus minimally embedded in a 2-dimensional complex projective space with parallel second fundamental form, c)  $M$  is an embedded submanifold congruent to the standard embedding of: symmetric spaces  $SU(3)/SO(3)$ ,  $SU(3)$ ,  $SU(6)/Sp(3)$  or  $E_6/F_4$  of rank 2 of dimensional 5, 8, 14, 26. Also I'd like to the parallelism of a compact Einstein complex submanifold of a complex projective space.