

CONFORMAL TWISTED PRODUCTS

We introduce the notion of conformal twisted product submanifolds of the form $M = {}_f M^T \times_b M^\theta$ and $M = {}_f M^\theta \times_b M^T$, where M^T is a holomorphic submanifold and M^θ is a proper slant submanifold of M in a locally conformal Kaehler manifold. We give an illustrative example such submanifolds and we give necessary and sufficient conditions for proper semi-slant submanifold to be a locally conformal twisted product. We establish a general inequality for the square norm of second fundamental form of such submanifolds.