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*On curvature and the structure of projective Kaehler manifolds*

We will discuss the structure of projective Kaehler manifolds based on various curvature assumptions. If the holomorphic sectional curvature is negative, we will present positivity theorems for the canonical line bundle. In the positive curvature case, positive total scalar curvature will be identified as a sufficient condition for uniruledness. This is joint work with S. S. Y. Lu and B. Wong.