

# RECENT PROGRESSES IN KAEHLER AND COMPLEX ALGEBRAIC GEOMETRY

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We present recent progresses concerning the geometry of Kaehler compact manifolds.

- We shall explain the characterization of the Kaehler cone due to Demainilly and Paun, and the characterization of the pseudoeffective cone (Boucksom, Demainilly, Peternell, Paun) , which are major recent progresses in the study of the positivity properties of (1,1)-classes on Kaehler manifolds.

In a different direction, we shall explain important differences between Kaehler and projective geometry, discovered by the author:

- There is no way to extend the Hodge conjecture to Kaehler compact manifolds.
- There are Kaehler compact manifolds which do not have the homotopy type of projective complex manifolds.