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Algebraic and analytic bubbles in algebraic varieties

In analysis, the failure in “compactness” in some space of maps to a compact analytic object X is often explained by the existence of “bubbles” in X . In holomorphic geometry (resp. algebraic geometry) bubbles are given by nonconstant holomorphic maps from \mathbf{C} , i.e. Brody curves, (resp. from \mathbf{CP}^1 , i.e. rational curves) to X . We will discuss the role of bubbles for a quasi projective varieties U and their effect on the positivity of the log-canonical divisor of U . This is joint work with De-Qi Zhang.