

Einstein metrics and algebraic singularities

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A sequence of volume non-collapsed Einstein metrics may develop singularities in the limit. From Riemannian geometric analysis we have some qualitative understanding of these singularities, but a quantitative description is lacking in general. In this talk we will show that for Kahler-Einstein metrics on algebraic varieties, the implement of complex/algebraic geometric techniques allows us to say much more explicit about the singularities. A particular class of examples will be discussed in detail.

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