CMI Mathematics Colloquium

November 15, 2023

Chow Lefschetz theorem for smooth hypersurfaces in projective spaces

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In this talk we will discuss the classical Lefschetz theorem for smooth hypersurfaces in projective spaces. The cohomological version has led to a conjectural Chow analogue due to Nori and others. This has been verified in some examples. We pose a homological Chow analogue, and provide some examples in support of it. This is a joint work with K. Banerjee and J. Lewis.