The geometry of holomorphic and algebraic curves in
complex algebraic varieties
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Griffiths conjecture for $\mathbf{P}^2$

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Abstract

The main result of this talk is an upper bound for the sum of defects for non-degenerate holomorphic maps and divisors of degree d, geometrically in general position (stronger than set theoretical general position), in $\mathbf{P}^2$. Griffiths conjectured that the bound should be $(n+1)/d$. We verified this in the case $n = 2$. The proof is based on the precise asymptotic formulas obtained earlier by Chandler-Wong.