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On Lê's formula

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Let $f, g \in K[[x, y]]$ be two power series where K is an algebraically closed field of characteristic zero. In 1974 Lê proved the relationship between the intersection multiplicity of the curve $f = 0$ and the Jacobian of f and g with the Milnor number of $f = 0$ and the intersection multiplicity of the curves $f = 0$ and $g = 0$. In this talk we will recall this result and present its generalization when K is an algebraically closed field of positive characteristic.

This is a joint work with Arkadiusz Płoski.

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