

**On the number of solutions of the
equation $\frac{dx}{dt} = \sum_{j=0}^n a_j(t)x^j$, $0 \leq t \leq 1$
for which $x(0) = x(1)$**

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The motivation of this talk is to discuss a kind of particular case of Hilbert's 16th problem about the maximum number of limit cycles of a ODE on the real plane \mathbb{R}^2