## Rational curves with real inflection points

Let  $f = (f_0, \ldots, f_n)$  be a vector of complex polynomials. Suppose that the Wronskian determinant  $W = W(f_0, \ldots, f_n)$  has only real zeros. Then there exists a matrix  $A \in GL(n+1, \mathbb{C})$ , such that the vector Af consists of real polynomials.

This was conjectured by B. and M. Shapiro. The conclusion is not true if we only assume that W is a real polynomial. The conjecture is known to be true for n = 1 [1].

[1] A. Eremenko and A. Gabrielov, Rational functions with real critical points and B. and M. Shapiro conjecture in real enumerative geometry, Ann. Math., 155 1 (2002).