Resumé:
Given a real sequence $B := (B_{i,j})$ $(i, j >= 0, i + j <= 2n)$, we provide concrete necessary and sufficient conditions for the existence of a positive Borel (finitely atomic) measure μ, supported in a prescribed parabola in the plane, such that for each i and j, $B_{i,j}$ is the μ-moment for $x^i y^j$. Joint work with R.E. Curto.