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In this talk, we will consider real functions on the interval  $[0,1]$  and linear positive operators using the information of the  $n$  first moments of the functions. In order to obtain a good behavior with the polynomials of low degree and a good rate of convergence, we will consider different situations and we will show some positive linear operators with optimal eigenvalues for polynomials of low degree. (Received February 14, 2008)