

**Abstract**

We consider the problem of finding the best analytic approximation in Smirnov and Bergman norm to general monomials of the type  $z^n \bar{z}^m$ . We show that in the case of approximation to  $\bar{z}$  in the annulus (and the disk) the best approximation is the same for all values of  $p$ . It also turns out that the best approximations to  $\bar{z}$  in Smirnov and Bergman spaces characterize disks and annuli.