A UNIFORM $L^\infty$ ESTIMATE
OF THE SMOOTHING OPERATORS
RELATED TO PLANE CURVES

KANGHUI GUO

ABSTRACT. In dealing with the spectral synthesis property for a plane curve with nonzero curvature, a key step is to have a uniform $L^\infty$ estimate for some smoothing operators related to the curve. In this paper, we will show that the same $L^\infty$ estimate holds true for a plane curve that may have zero curvature.