## Abstract

For a given $\$ q$ in kom $\$$ with $\$|q|$ le $1 \$$, we study the $\$ C \$$-numerical range of a Hilbert space operator where $\$ C \$$ is an operator of the form [ left( begin\{array\}\{ccc\} ql_n \& sqrt\{1-|q| $\left.{ }^{\wedge} 2\right\} \mid \_n \backslash 0 \_n \& 0 \_n$ end\{array\} right) oplus 0.] Some known results on the $\$ \mathrm{q} \$$ numerical range are extended to this set.

