## 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|^2}I\_n \ 0\_n & 0\_n end{array} right) oplus 0. ] Some known results on the \$q\$-numerical range are extended to this set.