1125-47-2408   **Jaedeok Kim*** (jkim@jsu.edu) and **Youngmi Kim** (ykim@jsu.edu). *Numerical Range of Partial Isometries.*

Let S be a partial isometry on a Hibert space $\mathcal{H}$ with the initial space N and the final space M. A classification can be made for partial isometries into a few different types in terms of the geometric position of two subspaces M and N. The numerical range of partial isometry S, $W(S) = \{\langle S\xi, \xi \rangle : \xi \in \mathcal{H}, \|\xi\| = 1\}$, will be described based on the classification of partial isometries. (Received September 20, 2016)