1113-47-174 Dijana Ilisevic* (ilisevic@math.hr), Department of Mathematics, University of Zagreb, Bijenicka 30, 10000 Zagreb, Croatia. Generalized Bicircular and Generalized Tricircular Projections.
Let $X$ be a complex Banach space and let $P: X \rightarrow X$ be a linear projection, that is, a linear mapping with the property $P^{2}=P$. A projection $P$ is called a generalized bicircular projection if the mapping $P+\lambda(I-P)$ is an isometry for some modulus one complex number $\lambda \neq 1$. The notion of a generalized tricircular projection naturally arises when a combination of two mutually orthogonal projections $P$ and $I-P$ is replaced with a combination of three projections $P$, $Q, R$ satisfying $P \oplus Q \oplus R=I$. The aim of this talk is to describe the structure of these mappings on certain spaces of operators. (Received August 20, 2015)

