

The space of generalized theta-series with quadratic forms in any number of variables

Ketevan SHAVGULIDZE
Tbilisi State University

The upper bound of the dimension of vector spaces of generalized theta-series corresponding to some nondiagonal quadratic forms in any number of variables is established. In a number of cases, the upper bound of the dimension of the space of theta-series with respect to the quadratic forms of five variables is improved and the basis is constructed.