Abstract

Flag kernels are tempered distributions which generalize the Calderón-Zygmund kernels. Consider a homogeneous group $\mathbb{G}$. The class of flag operators which acts on $L^2(\mathbb{G})$ by convolution with flag kernels is closed under composition. In this work we prove the inverse-closed property for the algebra of flag operators on the Heisenberg group. It means that if an operator from this algebra is invertible on $L^2(\mathbb{G})$, then its inversion remains in the class.