

We present a first measurement of time-dependent \mathcal{CP} -violation in $B^0 \rightarrow D^{*\mp}\rho^\pm$, where $D^{*\mp} \rightarrow D^0\pi$. The analysis was performed using the final Belle dataset containing 772×10^6 $B\bar{B}$ pairs collected at the KEKB e^+e^- collider. Three D^0 decay modes are analyzed, $K^\mp\pi^\pm$, $K^\mp\pi^\pm\pi^0$, and $K^\mp\pi^\pm\pi^\mp\pi^\pm$. Since the studied decay is a scalar \rightarrow vector vector decay, three helicity configurations are present. Exploiting the helicity configurations via angular analysis, the time-dependent \mathcal{CP} -violation parameters encoding $2\phi_1 + \phi_3$ are obtained from the fit.