

ABSTRACT. In this note, we compute the Tian's  $\alpha_G(M)$ -invariant on  $\mathbb{C}P^2 \# 2\overline{\mathbb{C}P^2}$ . Our result is an improvement of Abdesselem's result in Abdesselem (1997). As a consequence, we obtain a good estimate of Ricci curvature on  $\mathbb{C}P^2 \# 2\overline{\mathbb{C}P^2}$  by studying certain complex Monge-Ampère equation.