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Selvi Beyarslan, Tai Ha* (tha@tulane.edu) and **Tran Nam Trung**. *Regularity of powers of edge ideals.*

Let $I = I(G)$ be the edge ideal of a simple graph G . When G is a tree or when G is a cycle we explicitly compute the regularity of I^s for any $s \geq 1$. In particular, we exhibit the asymptotic linearity of the regularity of I^s for $s \gg 0$. (Received August 07, 2014)