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Adam Blumenthal* (ablument@iastate.edu), **Bernard Lidicky**, **Yanitsa Pehova**, **Oleg Pikhurko**, **Florian Pfender** and **Jan Volec**. *Sharp Bounds for Decomposing Graphs into Edges and Triangles.*

Let $\pi_3(G)$ be the minimum of twice the number of K_2 's plus three times the number of K_3 's over all edge decompositions of a graph G into copies of K_2 and K_3 . Let $\pi_3(n)$ be the maximum of $\pi_3(G)$ over graphs with n vertices. This specific extremal function was studied by Győri and Tuza, and recently improved by Král, Lidický, Martins, and Pehova. We extend the proof by giving the exact value of $\pi_3(n)$ for large n and classify the extremal examples.

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