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Bidwan Chakraborty* (bidwanc@gmail.com), B. R. Ambedkar Hall of Residence, IIT Kharagpur, Kharagpur, WestBengal 721302, India, and **Mousumi Mandal**. *Invariants of the symbolic powers of edge ideals.*

Let G be a graph and $I = I(G)$ be its edge ideal. When G is the clique sum of two different length odd cycles joined at single vertex then we give an explicit description of the symbolic powers of I and compute the Waldschmidt constant. When G is complete graph then we describe the generators of the symbolic powers of I and compute the Waldschmidt constant and the resurgence of I . Moreover for complete graph we prove that the Castelnuovo-Mumford regularity of the symbolic powers and ordinary powers of the edge ideal coincide. (Received September 11, 2019)