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Adam Blumenthal* (ablument@iastate.edu), **Bernard Lidicky, Ryan Martin, Sergey Norin, Florian Pfender** and **Jan Volec**. *Counterexamples to a conjecture of Harris on Hall ratio.*

The Hall ratio of a graph G is the maximum value of $v(H)/\alpha(H)$ taken over all non-null subgraphs H of G . For any graph, the Hall ratio is a lower-bound on its fractional chromatic number. In this note, we present various constructions of graphs whose fractional chromatic number grows much faster than their Hall ratio. This refutes a conjecture of Harris. (Received September 13, 2019)