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Daniel Johnston* (johndan@gvsu.edu), **Cory Palmer** and **Amites Sarkar**. *Rainbow Turán Numbers for Paths and Forests of Stars.*

For a fixed graph F , we consider the maximum number of edges in a properly edge-colored graph on n vertices which does not contain a rainbow copy of F , that is, a copy of F all of whose edges receive a different color. This maximum, denoted by $ex^*(n; F)$, is the rainbow Turán number of F , and its systematic study was initiated by Keevash, Mubayi, Sudakov and Versträte [*Combinatorics, Probability and Computing* **16** (2007)]. In this talk, we look at $ex^*(n; F)$ when F is a forest of stars, and consider bounds on $ex^*(n; F)$ when F is a path with l edges, disproving a conjecture in the aforementioned paper for $l = 4$. (Received September 24, 2017)