1161-05-306 Runrun Liu, Martin Rolek and Chris Stephens* (chris.stephens@mtsu.edu), Box 34, Department of Mathematical Sciences, 130 E. Main St., Murfreesboro, TN 37132, and Dong Ye and Gexin Yu. Connectivity for kite-linked graphs.

For a given graph H, a graph G is H-linked if, for every injection $\phi: V(H) \to V(G)$, the graph G contains a subdivision of H with $\phi(v)$ corresponding to v, for each v in V(H). Let f(H) be the minimum integer k such that every k-connected graph is H-linked. Among connected simple graphs H with at least four vertices, the exact value f(H) is only know when H is a star, or a path with four vertices, or a cycle with four vertices. A kite is graph obtained from K_4 by deleting two adjacent edges, i.e., a triangle together with a pendant edge. In this project, we find the exact value for f(H) when ${\cal H}$ is the kite by showing that every 7-connected graph is kite-linked. (Received August 19, 2020)