1030-05-390   **Jerrold R. Griggs**, Department of Mathematics, University of South Carolina, Columbia, SC 29208, and **Linyuan Lu*** (`lu@math.sc.edu`), Department of Mathematics, University of South Carolina, Columbia, SC 29208. *On families of subsets with a forbidden subposet.*

Let $\mathcal{F} \subset 2^{[n]}$ be a family of subsets of $[n] = \{1, 2, \ldots, n\}$. For any poset H, we say $\mathcal{F}$ is H-free if $\mathcal{F}$ does not contain any subposet isomorphic to H. For a fixed poset H, let $\mathrm{La}(n, H)$ be the maximum size of H-free families $\mathcal{F} \subset 2^{[n]}$. We give bounds on $\mathrm{La}(n, H)$ in terms of H. (Received August 07, 2007)