1056-57-216   **Cornelia A. Van Cott*** (`cvancott@usfca.edu`), University of San Francisco, Math Department, 2130 Fulton Street, San Francisco, CA 94117. *An obstruction to slicing iterated Bing doubles.*

Beginning with a knot K, one can construct a sequence of links called iterated Bing doubles $BD_n(K)$. Determining when iterated Bing doubles are slice has proved to be a difficult problem, for many of the usual tools from classical link theory fail in the case of Bing doubles. We prove the following result: If $BD_n(K)$ is slice for some n, then K is algebraically slice. (Received August 15, 2009)