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**Michel Smith\*** ([smith01@auburn.edu](mailto:smith01@auburn.edu)), Dept of Mathematics and Statistics, Auburn University, Auburn, AL 36849. *On the existence of nonmetric hereditarily indecomposable subcontinua of  $(Souslin\ line) \times X$ .*

Let  $S$  denote a Souslin arc, a Hausdorff arc obtained by compactifying a connected Souslin line by adding the necessary endpoints. For  $X$  a metric continuum or a Soulin arc, we examine the existence of hereditarily indecomposable subcontinua of  $S \times X$ . If  $M$  is such a hereditarily indecomposable continuum, then either  $M$  lies in a single fiber  $\{s\} \times X$  or  $\pi_1(M)$  is a metric arc and hence  $M$  itself is metric. (Received September 01, 2008)