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Shuaibing Luo* (luo@math.utk.edu) and **Stefan Richter**. *Index of invariant subspaces in the space of weak products of Dirichlet functions.*

The space of weak products of Dirichlet functions denoted by $D \odot D$ has many nice properties, we can think of it as the analogue of H^1 space. The dual of $D \odot D$ has been characterized by Arcozzi, Rochberg, Sawyer, and Wick in 2010. In this talk, we first identify the Cauchy dual of $D \odot D$ by using the dual of $D \odot D$, then we establish the existence of pseudocontinuations of the functions in some subspaces in the Cauchy dual of $D \odot D$, and from this we conclude that the index for any M_z -invariant subspaces in $D \odot D$ is 1. (Received January 16, 2014)