

**Peg Daniels**

*$\omega^\omega$ -directedness and a question of E. Michael*

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**Abstract:** We define  $\omega^\omega$ -directedness, investigate various properties to determine whether they have this property or not, and use our results to obtain easier proofs of theorems due to Laurence and Alster concerning the existence of a Michael space, i.e. a Lindelöf space whose product with the irrationals is not Lindelöf.

**Keywords:** Michael space, Lindelöf

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