Arturo Martinez-Celis

University of Wroclaw, Poland
arturo.martinez-celis@math.uni.wroc.pl

Forcing a Michael space

A Lindelöf space is a Michael space if it has a non-Lindelöf product with the space of the irrational numbers. It is known that they exist under $\mathfrak{b} = \aleph_1$ or $\mathrm{cov}(\mathcal{M}) = \mathfrak{d}$. In this talk we will show that a Michael space always exists after forcing with $\mathcal{P}(\omega)/\mathrm{Fin}$. We will also discuss when we can use a Selective Ultrafilter to construct a Michael space.