

Baire space is universal for Polish spaces

 ${\bf Canonical\ name} \quad {\bf Baire Space Is Universal For Polish Spaces}$

Date of creation 2013-03-22 18:46:54 Last modified on 2013-03-22 18:46:54

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Numerical id 5

 $\begin{array}{ll} \text{Author} & \text{gel (22282)} \\ \text{Entry type} & \text{Theorem} \\ \text{Classification} & \text{msc } 54\text{E}50 \\ \text{Related topic} & \text{PolishSpace} \end{array}$

Related topic InjectiveImagesOfBaireSpace

The following result says that Baire space, \mathcal{N} , is universal for Polish spaces.

Theorem. Let X be a nonempty Polish space. Then, there is a continuous and onto map $f: \mathcal{N} \to X$.