

planetmath.org

Math for the people, by the people.

product of uniform spaces

Date of creation 2013-03-22 16:30:49 Last modified on 2013-03-22 16:30:49

Owner mps (409) Last modified by mps (409)

Numerical id 4

Author mps (409) Entry type Definition Classification msc 54E15 **Definition.** Let $\{X_\alpha\}_{\alpha\in I}$ be a nonempty family of uniform spaces. The is the http://planetmath.org/UniformitiesOnASetFormACompleteLatticeweakest uniformity on the Cartesian product $X=\prod_{\alpha\in I}X_\alpha$ making all the projection maps $\pi_\alpha\colon X\to X_\alpha$ uniformly continuous.