Seminario de Geometría y Topología

UNIVERSIDAD COMPLUTENSE MADRID

Non-product group topologies for R^n

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Abstract. Non-product group topologies for R^n are topologies that make it an additive topological group but that do not make the projection maps onto the coordinate axes continuous. We will describe a technique for creating such topologies, which can have some unusual properties. For example, there is a group topology for the plane that is strictly weaker than the usual topology but nevertheless induces the usual topology on every straight line.

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