Seminario de Geometría y Topología

UNIVERSIDAD COMPLUTENSE MADRID

Unconditional series in topological groups

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Resumen:

We plan to discuss an example of an infinite complete connected topological Abelian group without non-trivial convergent sequences, thus disproving the claim in [N.~Bourbaki, General Topology, Part~1, Herman, Paris VI (1966), Ex.~6(b)]. We also show that if every convergent series in a \v{C}ech-complete topological Abelian group converges unconditionally, then the group has a local base at the neutral element consisting of open subgroups. This result corrects Bourbaki's claim.

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