COUNTEREXAMPLES OF M-WEIERSTRASS' THEOREM

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ABSTRACT. We all know the M-Weierstrass' Theorem which guarantees the absolute and uniform convergence of a series of functions that is dominated by a convergent series. In this talk we are going to focus our attention on the algebraic structure of those series that do not fulfill the hypothesis of M-Weierstrass' Theorem although they are absolute and uniformly convergent.