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Title: Boundary behaviour in Marcinkiewicz and Lorentz classes of operator Herglotz function and Zygmund theorem

Abstract: For operator-valued Herglotz functions in the half-plane the existence of their boundary limits on the real axis to be considered in classes of Marcinkiewicz and Lorentz. Operator version of celebrated Zygmund theorem is an another topic of the lecture. The belonging of the boundary values to the trace ideal for Herglotz function taking values in Matsaev operator class to be discussed.