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Title: **Regularity VS Lavrentiev gap: borderline case of double-phase potential model and related Musielak-Orlicz function classes**

Abstract: We present new density results and examples on Lavrentiev gap for the borderline case of double-phase potential model and more general related classes. This talk is based on the join work with Mikhail Surnachev (Keldysh Institute of Applied Mathematics, Moscow).