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Counting powerfree-like numbers

Recently, Martin, Mossinghoff and Trudgian investigated oscillation results for a family of arithmetic functions called “fake μ 's”. In particular, they proved oscillation results at scale \sqrt{x} for a family of fake μ 's. In this talk, I will discuss new oscillation results for the summatory functions of all nontrivial fake μ 's, focusing on their connections with classical results on the indicator functions of powerfree numbers. Joint work with Greg Martin.