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Two Theorems of Piatetski-Shapiro

Two of Piatetski-Shapiro's early papers deal with questions about the Diophantine properties of fractional powers of integers. One of these introduced what is now known as Piatetski-Shapiro primes. The other introduced the study of the Waring-Goldbach problem for fractional exponents. In this talk, I will review some of the history of both problems and then will present some recent hybrid results. This is joint work with Zhivko Petrov (Sofia University).