

# ON KLS CONJECTURE FOR CERTAIN CLASSES OF CONVEX SETS

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The talk based on a joint work with Emanuel Milman (Haifa, Technion). The celebrated Kannan–Lovász–Simonovits conjecture was confirmed for  $l_p$  balls by S. Sodin ( $p < 2$ ) and R. Latała and J. Wojtaszczyk ( $p > 2$ ). We verify this conjecture up to a logarithmic factor for certain level sets of sums of convex independent potentials  $V_i$ . Moreover, the KLS conjecture is confirmed for this type of sets under a mild technical assumption on the growth of  $V_i$ .