1117-39-352        **Maxim Zinchenko\***, Department of Mathematics and Statistics, University of New Mexico.
*Lieb–Thirring Inequalities for Finite and Infinite Gap Jacobi Matrices.* Preliminary report.

In this talk I will present Lieb–Thirring bounds (i.e., eigenvalue power bounds) for discrete eigenvalues (in the gaps and above/below the essential spectrum) of perturbed almost-periodic Jacobi matrices with finite and more generally infinite gap essential spectrum. More precisely, I will consider Schatten class perturbations of Jacobi matrices from the isospectral torus associate to a finite or infinite gap set. In particular, I will discuss three specific examples: a finite gap set, a set consisting of infinitely many bands, and a fat cantor set. (Received January 17, 2016)