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Milivoje Lukic* (milivoje.lukic@rice.edu), Rice University, 6100 Main Street, Mathematics MS 136, Houston, TX 77005. *Bounded variation conditions and absolutely continuous spectrum.*

It is well known that ℓ^1 perturbations of the free Jacobi matrix have purely a.c. (absolutely continuous) spectrum on $(-2, 2)$ and ℓ^2 perturbations have a.c. spectrum on $(-2, 2)$. For perturbations of slower decay, bounded variation conditions turn out to be natural conditions for existence of a.c. spectrum. In this talk, we will discuss some recent results which show that certain ℓ^1 and ℓ^2 bounded variation conditions on the Jacobi coefficients imply purely a.c. spectrum or a.c. spectrum on suitable intervals. (Received September 04, 2013)