

# **Eigenvalue density of limit circle Jacobi operators and related canonical systems**

*Jakob Reiffenstein*

The eigenvalues of a limit circle Jacobi operator can be described on a quantitative level in terms of the growth of the Nevanlinna matrix. We translate this problem to the setting of canonical systems. In this setting, rather mild assumptions on the data are sufficient to determine the growth of the Nevanlinna matrix: Certain sequences of coefficients need to be close enough to some regularly varying sequences. Our method gives particular insight into the different behavior for orders less than  $1/2$  and orders larger than  $1/2$ .