## INDEFINITE STURM-LIOUVILLE

## M. LEVITIN

Recently, we have proved some conjectures related to the generalized eigenvalue problem  $(-\frac{d^2}{dx^2}+\frac{c}{1+|x|})\psi=\lambda\mathrm{sgn}(x)\psi$ .

**Open problem:** Replace the potential term by a more general function.

 $Date \hbox{: } 2015 \hbox{ AIM}.$