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**A NOTE ON THE UNIFORM CONVERGENCE OF THE
EXPANSIONS IN TERMS OF ROOT FUNCTIONS OF SOME
SPECTRAL PROBLEMS**

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ABSTRACT

In this paper, some boundary value problems which is included spectral parameter depending on linearly, rationally or quadratically in one boundary condition are considered. We provide information about how asymptotic formulae for eigenvalues and eigenfunctions of these problems are sharpened and the conditions of the uniform convergence of the expansions in terms of root functions of these problems. Therewithal, the uniform convergence of the expansions in terms of root functions of a spectral problem quadratically dependent on the eigenparameter in one boundary condition are presented as an example of this information.

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