

## ON THE APPROXIMATION OF THE GENERALIZED CARATHEODORY FUNCTION

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The approximation problem of the generalized Nevanlinna function  $g$  in some area

$$W_v = \left\{ \alpha \in C_0, \left| \arg \alpha - \frac{\pi}{2} \right| \leq v \right\}, \text{ where } 0 \leq v < \frac{\pi}{2}$$

solved in the work of Krein M.G. and Langer H. "Ubereinige Forsetzungs probleme die eng mit der Theorie hermitescher Operatoren in Raume  $\Pi_\chi$  zusammenhangen".

Generalized Caratheodory function is connected with generalized Nevanlinna function through Cayley–Neumann transformation. In this work, results about the approximation of the generalized Caratheodory function are submitted.