## Zeros of nonpositive type of Nevanlinna functions with one negative square

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A generalized Nevanlinna function Q(z) with one negative square has precisely one generalized zero of nonpositive type in the closed extended upper halfplane. The fractional linear transformation

$$Q_{\tau}(z) = \frac{Q(z) - \tau}{1 + \tau Q(z)}, \qquad \tau \in \mathbb{R} \cup \{\infty\},$$

of Q(z) is a Nevanlinna function with one negative square as well. Let  $\alpha(\tau)$  define the generalized zero of nonpositive type of  $Q(\tau)$ . We investigate the properties of  $\alpha(\tau)$ , seen as a function of the parameter  $\tau$ .

The talk is based on a joint work with H.S.V. de Snoo and H. Winkler.