

# Products of Nevanlinna Functions with Certain Rational Functions

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Let  $Q$  be a scalar Nevanlinna function and let  $r$  be a rational function with real poles and zeros, which is also real on the real axis. Then the product  $\tilde{Q} = rQ$  (with special choices of  $r$ ) is considered. In particular, the operator representation of the function  $\tilde{Q}$  is connected to the operator representation of the function  $Q$ . Furthermore, the connections between the models of the functions  $Q$  and  $\tilde{Q}$  are studied, involving the  $L^2(d\sigma)$ -models and RKS-models.