1056-47-328   **Joseph A. Ball*** (`joball@vt.edu`), Department of Mathematics, Virginia Tech, Blacksburg, VA 24061-0123, and **Sanne ter Horst** (`s.terhorst@math.uu.nl`), Department of Mathematics, Utrecht University, Budapestlaan 6, 33584 CD, Utrecht, Netherlands. *Nevanlinna-Pick interpolation for the Schur class associated with a directed graph.*

The theory of Nevanlinna-Pick and Carathéodory-Fejér interpolation for matrix- and operator-valued Schur class functions on the unit disk is now well established. P.S. Muhly and B. Solel recently introduced a notion of Schur class and associated Nevanlinna-Pick interpolation theory in the context of a Fock space built from a W^*-correspondence E over a W^*-algebra $\mathcal{A}$ and a $*$-representation σ of $\mathcal{A}$. In addition to the classical case, a particular instance of this setting is a Schur class equal to the unit ball of the Toeplitz algebra associated with a directed graph (or quiver). In this talk we make explicit the content of the Nevanlinna-Pick interpolation theory for this setting and discuss connections with other recent work on generalized Schur classes and interpolation theory. (Received August 29, 2009)

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