Generalized Nevanlinna Functions in the Banach Space Setting

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joint work with D. Volok and O. Timoshenko

We define Nevanlinna and generalized Nevanlinna functions in the setting of analytic functions which take values from a Banach space into its conjugate dual space. Two kind of representations are given; the first is based on Helly's theorem while the second uses ideas of of Krein and Langer and is based on relations in Pontryagin spaces.

The manuscript is available on the Arxiv server at:

http://arxiv.org/pdf/math.FA/0607283