Degenerated Inner Product Spaces

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Let S be a linear relation in a degenerated inner product space H. Then S can be viewed as a symmetric linear relation in H. All its selfadjoint extensions can be caracterized in terms of von Neumann and Krein formulas. Some classes of matrix valued Nevanlinna functions are also involved. They are related by a decomposition of a linear relation in a Euclidean space.

The talk is based on joint work with Henk de Snoo and Henrik Winkler.