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Mixed Bram-Halmos and Agler-Embry conditions. Preliminary report.

The subnormality of a Hilbert space operator may be characterized either by the Bram-Halmos conditions (positivity of certain operator matrices) or the Agler-Embry conditions (positivity of certain operator differences). We define and consider mixed conditions involving matrices of operator differences, thus yielding conditions whose extremes are the Bram-Halmos and Agler-Embry conditions. We present results on these conditions for weighted shifts and for general operators. (Received September 01, 2016)