

DREXEL ANALYSIS SEMINAR

November 21, 2014

**3-3:50 PM, Korman 245**

**Speaker:** Anatolii Grinshpan (Drexel)

**Title:** Herbert Stahl's proof of the BMV conjecture

**Abstract:** Let  $A, B$  be Hermitian matrices of the same size, with  $B$  positive semi-definite. The BMV conjecture (Bessis, Moussa & Villani, 1975) asserts that the trace of the exponential  $\exp(A - tB)$  is completely monotone in  $t$ . This was proved by Stahl in 2011. I will follow a presentation by Eremenko (2013).