

100 \$ Prize

Let A, V be a symmetric nnd matrices and let

$$AV \neq VA$$

For $\lambda \geq 0$ define a function

$$f(\lambda) = \text{tr}((A - \lambda V)_+ V)$$

Is this function convex? Prove it or give counter-example

S. Gnot, G. Trenkler, R. Zmyślony, *Nonnegative minimum biased quadratic estimation in the linear regression models*, Journal of Multivariate Analysis 54 1 (1995), 113-125.