1099-46-49 **Ayse Guven*** (`a.guven@qmul.ac.uk`), Mile End Road, LONDON, E1 4NS. *an upper bound for the Hausdorff distance of the spectra of two trace class operators.*

In 1985, Elsner proved Hausdorff distance between the spectra of two $n \times n$ matrices A and B. We use a different approach to obtain an upper bound for the Hausdorff distance of the spectra of two $n \times n$ matrices A and B using computationally accessible expressions. We then extend it to the infinite dimensional setting such as Hausdorff distance of the spectra of two trace class operators. (Received January 17, 2014)