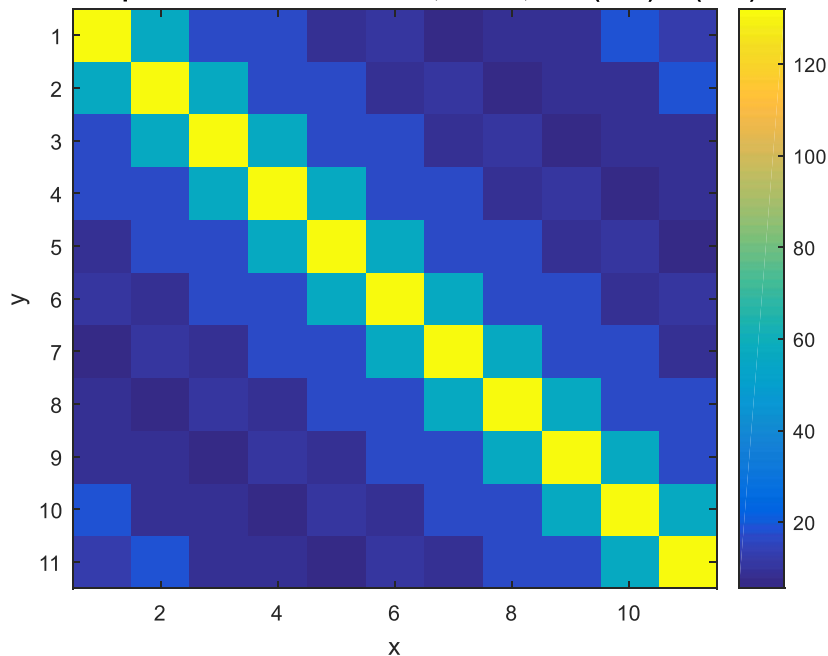
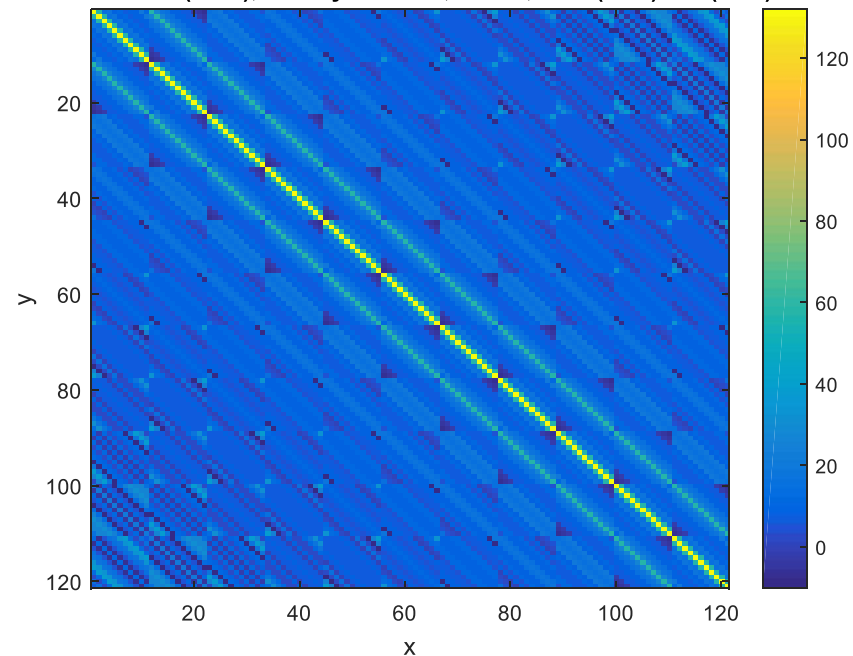


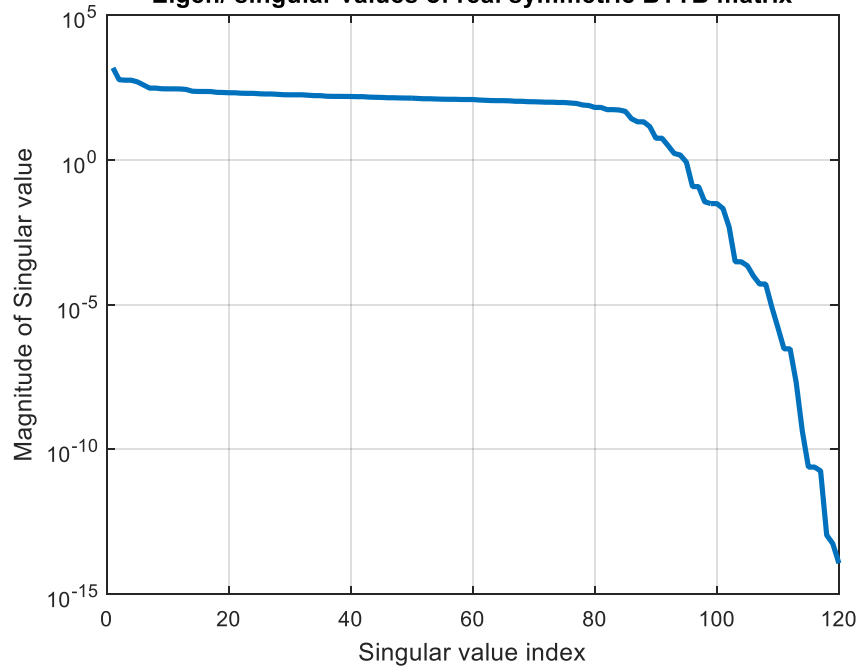
First toeplitz block of BTTB matrix, $N = 10$, size $(N+1) \times (N+1)$



BTTB matrix $(A^H A)$, real symmetric, $N = 10$, size $(N+1)^2 \times (N+1)^2$



Eigen/ singular values of real symmetric BTTB matrix



Direct Inverse of the BTTB matrix

