

Page No. Tage No. Date Date Eigen values of a positive semi-définite This is be came YX, xTAX70  $If Ax = \lambda x$ 1 = 2TAX 710 Hence, all eigenvalues of PLQ are non-negative Pu= Au Premultiply by A  $AA^{\dagger}(Au) = \lambda(Au)$ Hence Q (Au) = 1 (Au) Hence Au is the eigenvector of with eigenvalue of Similarly, QV = MV P(ATV) = M(ATV)

Plence, AT v is eigenvector of P with eigenvalue M

