

S.S.1 - Eigenvalue and eigenbeam plots follow for source separations along

(i) u_x -axis $\phi = 0^\circ$

(ii) $u_y = u_x$ axis $\phi = 45^\circ$

(iii) $u_y = \sqrt{3} u_x$ axis $\phi = 60^\circ$

(iv) u_y axis $\phi = 90^\circ$

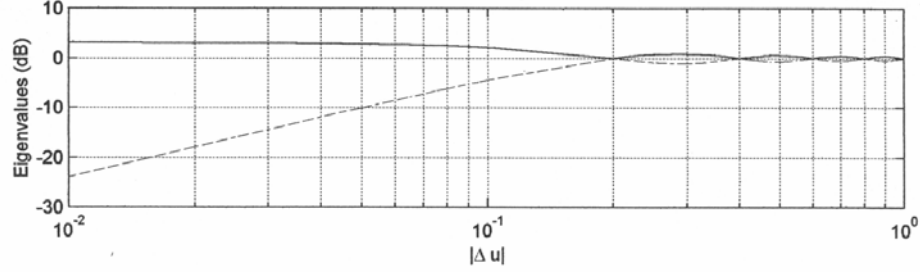
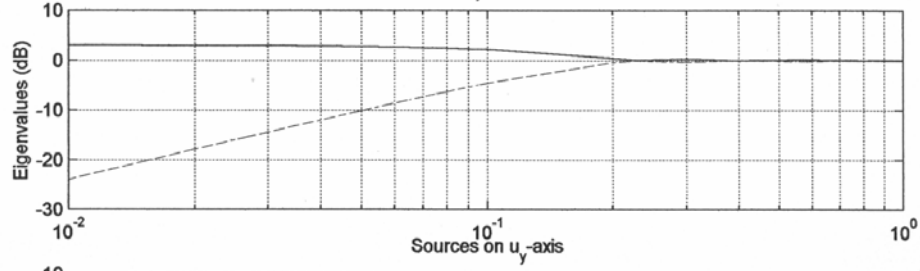
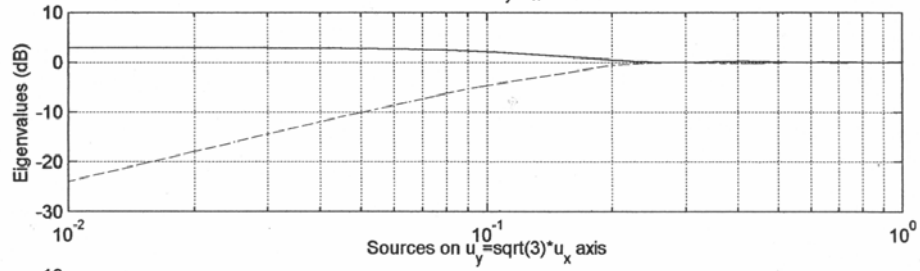
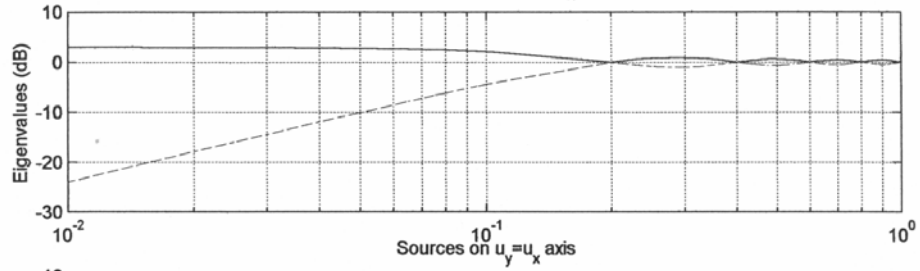
- eigenvalues agree exactly with analytical expressions

- eigenvectors agree to within complex rotation factor $c = e^{i\phi}$

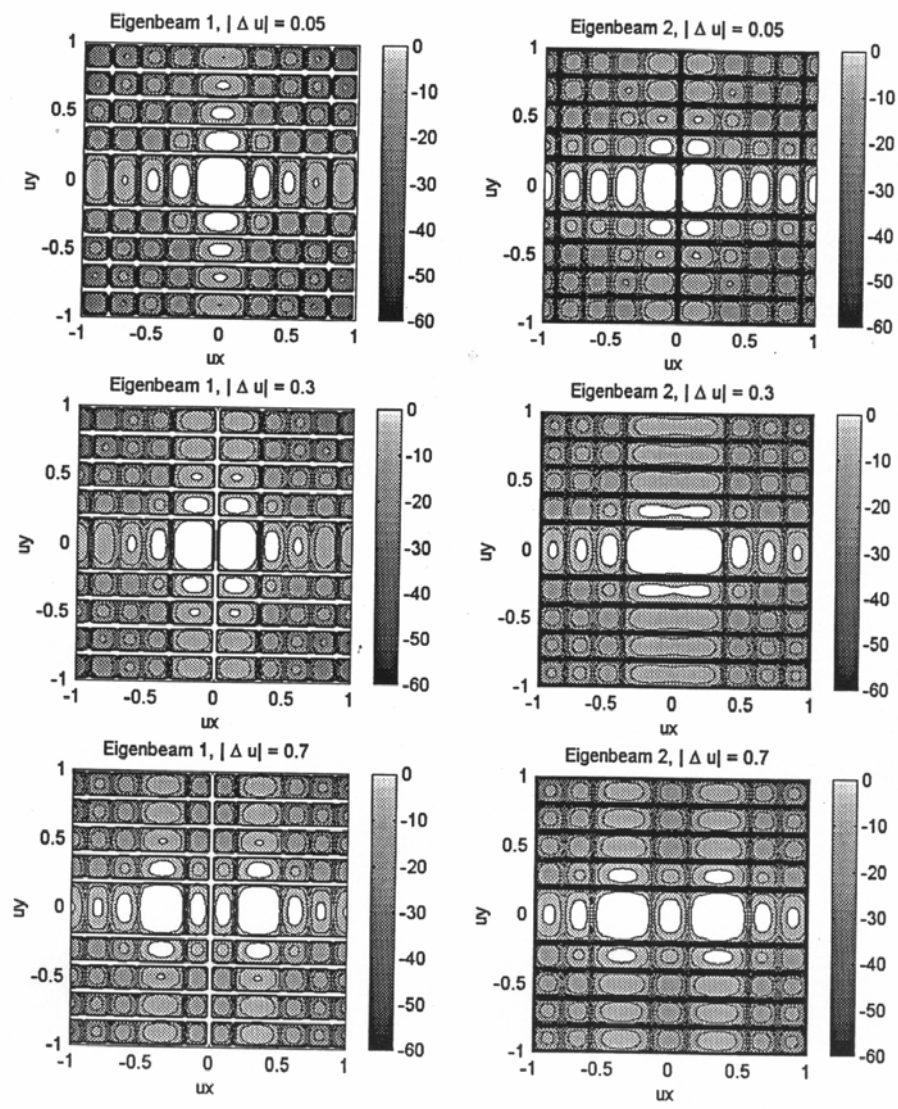
- eigenbeams are sum beam and difference beam as expected.

S.S. 1 ②

Prob. 5.5.1, Sources on u_x -axis

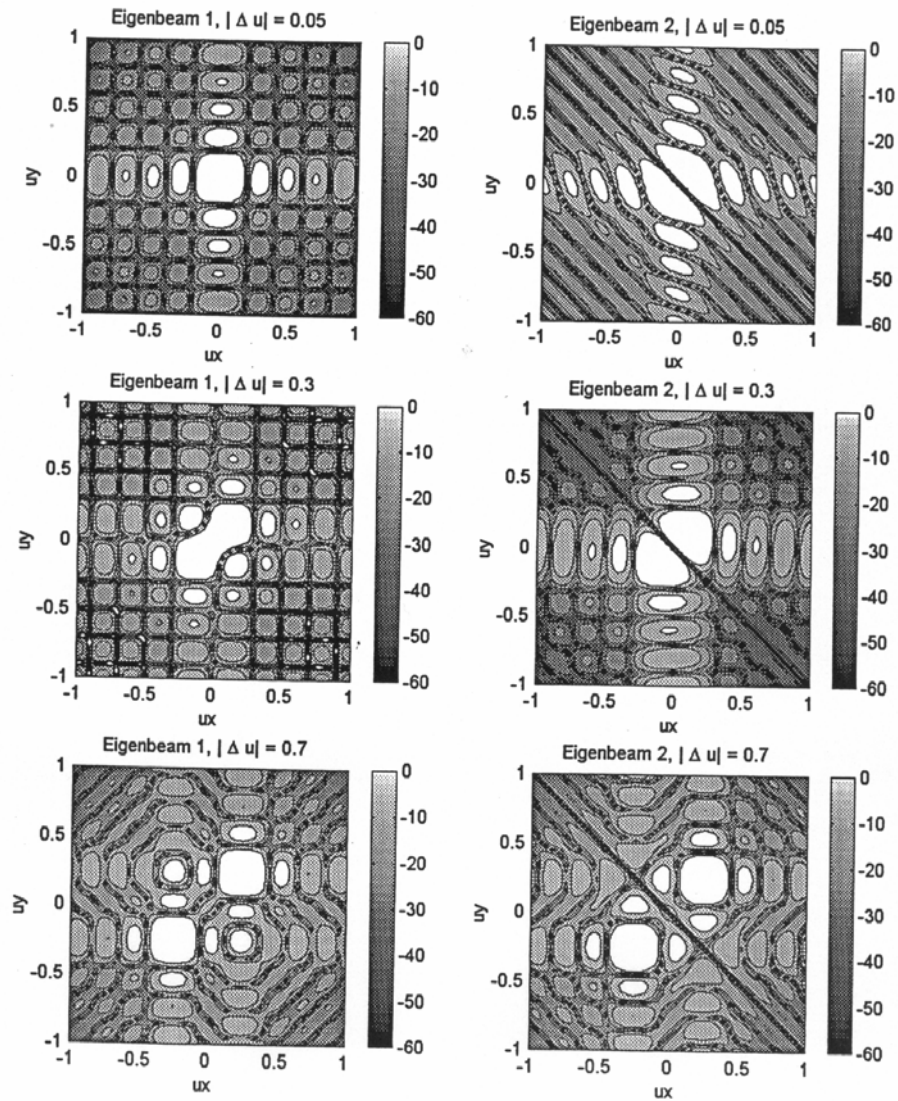


Sources on u_x -axis $\varphi = 0^\circ$



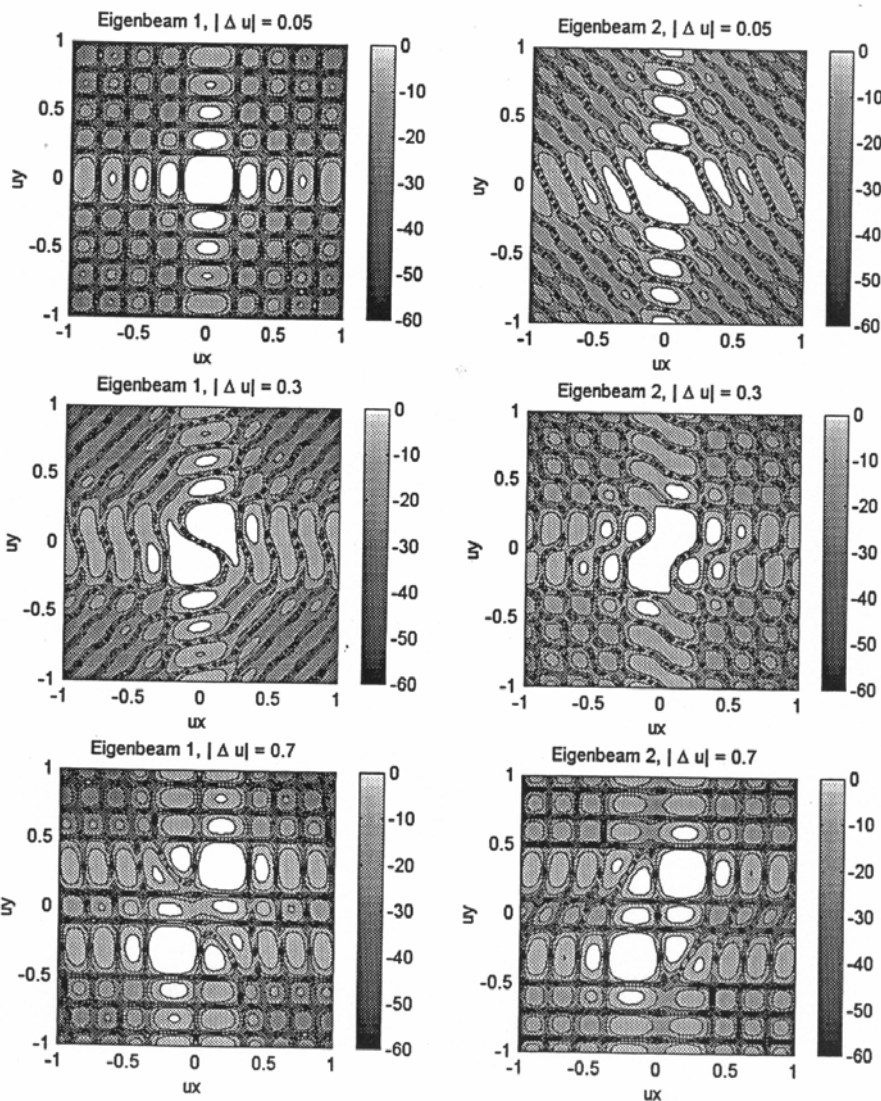
sources on $u_x = u_y$ axis $\phi = 45^\circ$

S.S. 1 (4)



sources on $u_x = \sqrt{3} u_y$ axis $\phi = 60^\circ$

S.S.1 ⑥



S.S.1 ⑥

Sources on u_y axis $\phi = 90^\circ$

