



$$Ax = \lambda x$$

$$(A - \lambda I)x = \lambda x - \lambda x = (A - \lambda I)x = 0$$

$$Ax = \lambda x \mid A^{-1}$$

$$\frac{1}{\lambda}x = A^{-1}x$$

plane_spm

$$\int_{\mathbb{R}^2} \int_{\mathbb{R}^2} x \otimes x$$

$$(A^T v)_i = \sum_j A_{ji} v_j$$

for j in range (3):

$$\int_{\mathbb{R}^2} \int_{\mathbb{R}^2} x \otimes x \otimes x \otimes x$$

$$I_{\text{screen}}[p, t, i, v] = \text{plane_spm}[p, j, i] * I[p, t, i, v]$$

$$I_{\text{screen}} = \text{hp.closure}(\text{plane_spm}, I)$$

Orthogonal iteration

$x_0 = \langle \text{initial vector} \rangle$

$$Q_k R_k = X_k$$

$$X_{k+1} = A Q_k$$

$$Q_{k+1} = Q_k$$

$$\underline{Q_{k+1} R_{k+1}} = X_{k+1} = A Q_k = \underline{A Q_{k+1}} \quad | \cdot Q_{k+1}^T$$

$$Q_{k+1} R_{k+1} Q_{k+1}^T = A$$