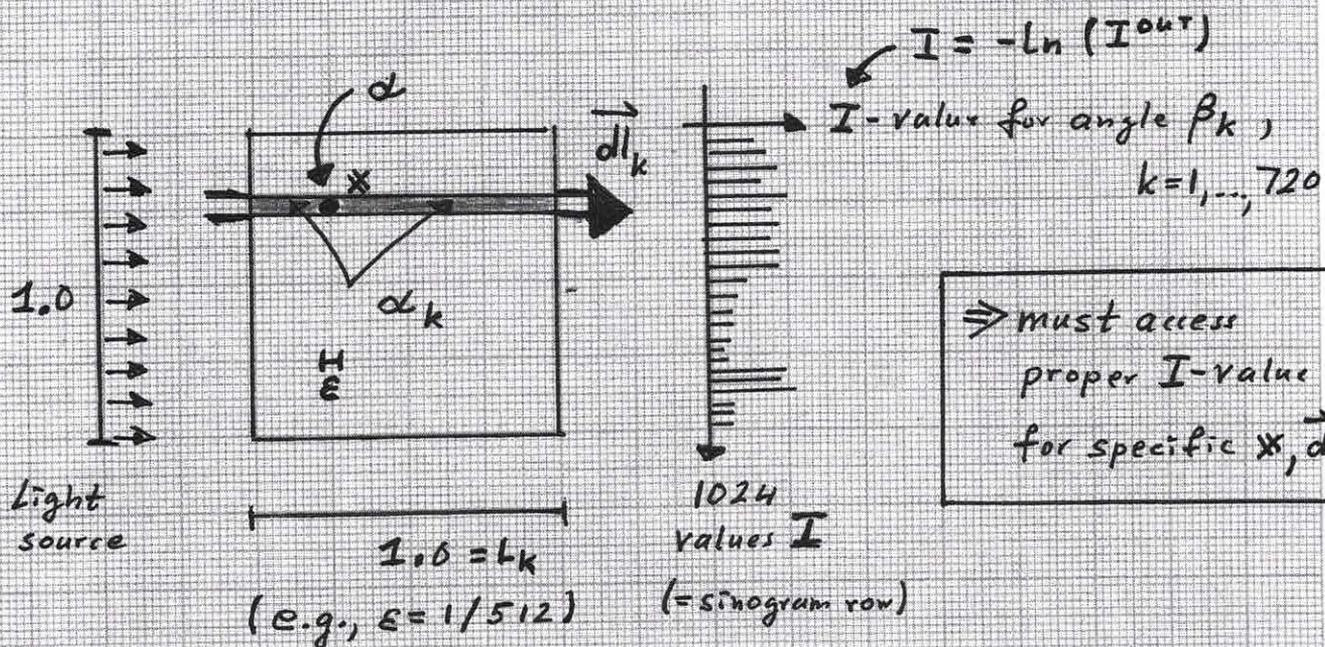


Stratovan

■ COMPUTING  $\alpha$ -VALUE FOR A POINT/PIXEL - Cont'd

(→ See notes from 10/24/18 as well...)



⇒ SIMPLIFY: SET  $L_k = 1$ ,  $k=1 \dots 720$

⇒ 721 UNKNOWNS PER POINT/PIXEL  $x$  IN "DOMAIN":

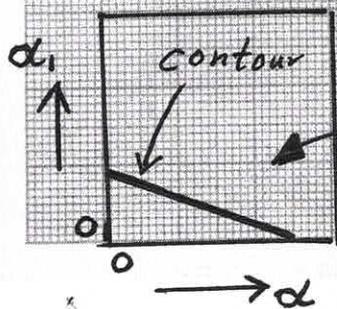
$\alpha, \alpha_1, \alpha_2, \dots, \alpha_{720}$

⇒ NEEDED:  $\alpha$

⇒ SYSTEM:  
(under determined)

$$\underbrace{\begin{bmatrix} \epsilon & 1 & & & \\ \epsilon & & 1 & & \\ \vdots & & & \ddots & \\ \epsilon & & & & 1 \end{bmatrix}}_{721} \underbrace{\begin{bmatrix} \alpha \\ \alpha_1 \\ \alpha_2 \\ \vdots \\ \alpha_{720} \end{bmatrix}}_{721} = \underbrace{\begin{bmatrix} I_1 \\ I_2 \\ I_3 \\ \vdots \\ I_{720} \end{bmatrix}}_{721}$$

(⇒  $M\alpha = I$ )



Geometrical interpretation of  $\epsilon\alpha + \alpha_1 = I_1$ :

Solution is CONTOUR LINE in  $(\alpha, \alpha_1)$ -plane

⇒ 720 contour lines for 720  $(\alpha, \alpha_k)$ -planes!

⇒ Define and compute "best  $\alpha$ " !!! ~ BH