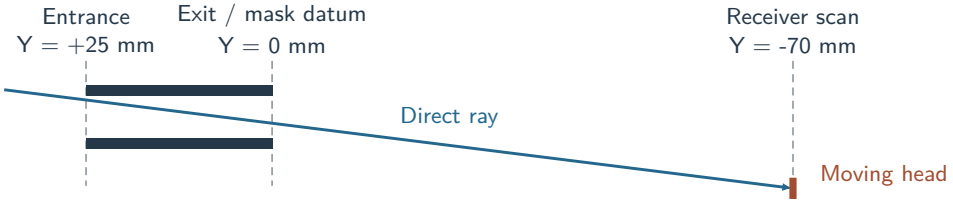
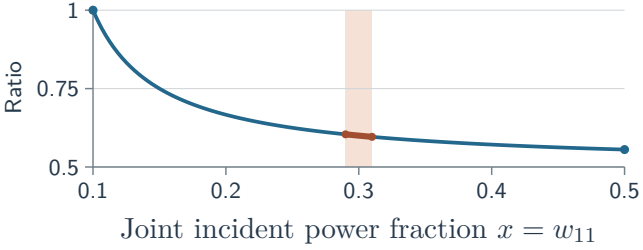
A F1 reference planes



$$T_{\text{entry}} = \gamma\,\eta_x\,(c_m/c_r)\,(M_r/M_m) \qquad \gamma = P_{\text{open,exit}}/P_{\text{open,entry}}$$

B A synthetic exit-reference ratio with unknown position–direction pairing



$$R_{r/m}(x) = x/(2x - 0.1)$$

Separate marginals

$R_{r/m} \in [5/9,\ 1]$

After measuring $0.29 \le x \le 0.31$

$R_{r/m} \in [31/52,\ 29/48]$