$$\left\{ i \ \middle| \ \max_i \frac{\left\langle |\hat{f}_i|^2, |\hat{f}_{ref}|^2 \right\rangle}{\left\| |\hat{f}_i|^2 \right\| \cdot \left\| |\hat{f}_{ref}|^2 \right\|} \right\}$$