



$$u = \max_{f^+} \left\{ f_1(\mathcal{Z}, \mathbf{k}), f_2(\mathcal{Z}, \mathbf{k}), \dots, f_u(\mathcal{Z}, \mathbf{k}) \right\}$$

$$d = 1 - \max_{f^-} \left\{ f_1(\mathcal{Z}, \mathbf{k}), f_2(\mathcal{Z}, \mathbf{k}), \dots, f_D(\mathcal{Z}, \mathbf{k}) \right\}$$