Definition (Series operator $\circledcirc$)

For two maps $h_1 : \mathbf{F}_1 \to \mathcal{A}\mathbf{R}_1$ and $h_2 : \mathbf{F}_2 \to \mathcal{A}\mathbf{R}_2$, if $\mathbf{R}_1 = \mathbf{F}_2$, define

$$h_1 \circledcirc h_2 : \mathbf{F}_1 \to \mathcal{A}\mathbf{R}_2,$$

$$f_1 \mapsto \operatorname*{Min}_{\preceq_{\mathbf{R}_2}} \bigcup_{s \in h_1(f)} h_2(s).$$