Definition (Loop operator †). For a map $h: F_1 \times F_2 \to \mathcal{A}R$, define

$$h^{\dagger}: F_1 \to \mathcal{A}R,$$

$$f_1 \mapsto \operatorname{lfp}\left(\Psi_{f_1}^h\right), \tag{0.1}$$

where If p is the least-fixed point operator, and $\Psi_{f_1}^h$ is defined as

$$\Psi_{f_1}^h : \mathcal{A}R \to \mathcal{A}R,$$

$$R \mapsto \min_{\leq_R} \bigcup_{r \in R} h(f_1, r) \cap \uparrow r.$$