$$a_i \longrightarrow \boxed{\phi} \longrightarrow a_o$$

$$S_i = \overbrace{\lambda_o \phi'(a_i^*)}^{\lambda_i} a_i \longleftarrow \bigoplus \longleftarrow S_o = \lambda_o a_o$$

$$S_k = \lambda_o [\phi(a_i^*) - a_i^* \phi'(a_i^*)]$$