Claim   Let $\varphi \in G_{n,r}$ be in quasinormal form with respect to X. If $y \in X$ belongs to an X-component of type (B), then the statement

$$y\varphi^i \in X\langle A\rangle \implies y\varphi^i \in X$$

holds when

1. $i < 0$, if the X-component of y is right semi-infinite;

2. $i > 0$, if the X-component of y is left semi-infinite.

Proof for RSI component. Suppose $y\varphi^i \in X\langle A\rangle \setminus X$ with $i < 0$.

$\square$