es-local-le-pred-property[11,40]

$\forall es$:ES, P:(E$\rightarrow \mathbb{B}$), e:E.
((↑($e \in_b$ es-local-le-pred{i:l}(es;P))) $\iff$ ($\exists a$:E. ($a \leq$loc e & (↑($P(a)$))))))
& ((↑($e \in_b$ es-local-le-pred{i:l}(es;P)))
⇒ (es-local-le-pred{i:l}(es;P)(e) $\leq$loc e
& (↑(P(es-local-le-pred{i:l}(es;P)(e))))
& ($\forall e''$:E.
$e'' \leq$loc e ⇒ (es-local-le-pred{i:l}(es;P)(e) <loc e'') ⇒ (¬(↑($P(e'')$)))))))

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_911786_{es-local-le-pred-property}.html