existse-between2[11,40]

$\exists e \in [e_1, e_2].P(e) \equiv_{\text{def}} \exists e$:es-E($es$). ((es-le($es$; e_1; e) $\wedge$ es-le(es; e; e_2)) c$\wedge$ $P(e)$)

clarification:

existse-between2(es;e_1;e_2;$e.P(e)$)
$\equiv_{\text{def}}$ $\exists e$:es-E(es). ((es-le(es; e_1; e) $\wedge$ es-le(es; e; e_2)) c$\wedge$ $P(e)$)

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http://www.nuprl.org/FDLcontent/p0_963683_/p44_290479_{existse-between2}.html