linorder_lt_neg[12,41]

$\forall T$:Type, R:($T \to T \to \mathbb{P}$).
($\forall x$, y:T. Dec($R(x,y)$))
$\Rightarrow$ Linorder(T;x,y.$R(x,y)$)
$\Rightarrow$ ($\forall a$, b:T. ($\neg$strict_part(x,y.$R(x,y)$;a;b)) $\iff$ $R(b,a)$)

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_4559_{linorder_lt_neg}.html