Inference at $*$
of proof for Lemma int_lt_to_int_upper:

$\vdash \forall i{:}\mathbb{Z},\ A{:}(\{i+1\ldots\}\rightarrow \mathbb{P}).\ \{\forall j{:}\mathbb{Z}.\ (i<j)\Rightarrow A(j)\}\iff\{\forall j{:}\{i+1\ldots\}.\ A(j)\}$
by Unfold ‘guard‘ 0

1:

$\vdash \forall i{:}\mathbb{Z},\ A{:}(\{i+1\ldots\}\rightarrow \mathbb{P}).\ (\forall j{:}\mathbb{Z}.\ (i<j)\Rightarrow A(j))\iff(\forall j{:}\{i+1\ldots\}.\ A(j))$
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http://www.nuprl.org/FDLcontent/p0_359040_/p121_94750_{int_lt_to_int_upper}.html