

Inference at *
of proof for Lemma can-apply-p-filter:

$\vdash \forall T:\text{Type}, P:(T \rightarrow \mathbb{P}), f:(\forall x:T. \text{Dec}(P(x))), x:T. (\uparrow \text{can-apply}(\text{p-filter}(f);x)) \iff P(x)$
by (((UnivCD
CollapseTHEN (Auto·))·)
CollapseTHEN (RepUR “can-apply p-filter“ (0
·))·)

1:

1. $T : \text{Type}$
 2. $P : T \rightarrow \mathbb{P}$
 3. $f : \forall x:T. \text{Dec}(P(x))$
 4. $x : T$
- $\vdash (\uparrow \text{isl}(\text{case } f(x) \text{ of } \text{inl}(p) \Rightarrow \text{inl } x \mid \text{inr}(p) \Rightarrow \text{inr } p)) \iff P(x)$
- .