Inference at $*$
of proof for Lemma sq_stable__and:

$\vdash \forall P, Q{:}\mathbb{P}.\ \mathrm{SqStable}(P) \Rightarrow \mathrm{SqStable}(Q) \Rightarrow \mathrm{SqStable}(P\ \&\ Q)$
by ((Unfold ‘sq_stable‘ 0)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

1. $P : \mathbb{P}$
2. $Q : \mathbb{P}$
3. $(\downarrow P) \Rightarrow P$
4. $(\downarrow Q) \Rightarrow Q$
5. $\downarrow(P\ \&\ Q)$

$\vdash P$

2:

1. $P : \mathbb{P}$
2. $Q : \mathbb{P}$
3. $(\downarrow P) \Rightarrow P$
4. $(\downarrow Q) \Rightarrow Q$
5. $\downarrow(P\ \&\ Q)$

$\vdash Q$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_101957_{sq_stable__and}.html