```
fusion_simplification  THM

⊢  ∀E:TaggedEventStruct, I,J,P:TraceProperty(E).
   ((I ∧ J) fuses P) ⇒ (I fuses J) ⇒ (P refines J) ⇒ (I fuses P)
  by Unfolds ``trace_property prop_and fusion_condition`` 0

     THEN Unfold `str_trace` 0 THEN Reduce 0
THEN Auto

     THEN RepeatFor 2 (BackThruSomeHyp THEN Auto)

     ...
END
```