Inference at * 1 0 of proof for Lemma Agatha Murder Puzzle (JProver)Lori2R:

- 1. Agatha hates Charles
- 2. Agatha hates Agatha
- 3. $\forall p$:Person. $\neg p$ is richer than Agatha \Rightarrow The Butler hates p
- 4. $\forall p$:Person. Agatha hates $p \Rightarrow \neg$ Charles hates p
- 5. $\forall p$:Person. Agatha hates $p \Rightarrow$ The Butler hates p
- 6. $\forall p$:Person. $\neg p$ hates Agatha $\vee \neg p$ hates The Butler $\vee \neg p$ hates Charles
- 7. $\forall p, q$:Person. p kills $q \Rightarrow \neg p$ is richer than q
- 8. $\forall p, q$:Person. p kills $q \Rightarrow p$ hates q
- $\vdash \neg \text{The Butler kills Agatha} \ \, \neg \text{Charles kills Agatha}$ by all L (3) The Butler

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9. ¬The Butler is richer than Agatha \Rightarrow The Butler hates The Butler \vdash ¬The Butler kills Agatha & ¬Charles kills Agatha

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