## Inference at \* 1 of proof for Lemma Agatha Murder Puzzle (JProver) Lori<br/>2:

- 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.  $\forall p : \text{Person.} \ \neg p \text{ hates Agatha} \lor \neg p \text{ hates The Butler} \lor \neg p \text{ hates Charles}$
- 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 Jprover

 $http://www.nuprl.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_\{Agatha!Murder!Puzzle!!JProver!Lori2\}1.html.org/FDLcontent/p0\_1056173\_/p22\_385605\_[Agatha!Murder]1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agatha!Murder)1.html.org/FDLcontent/p0\_1056173\_(Agat$