Agatha^{8,37}

ABS: $x$ likes $y$ likes
ABS: $x$ did not kill $y$ notkills
ABS: The Barber Barber
ABS: Agatha Agatha
ABS: Charles Charles
ABS: The Butler Butler
ABS: $x$ kills $y$ kills
ABS: $x$ hates $y$ hates
ABS: $x$ is richer than $y$ is-richer-than

STM: Agatha Murder Puzzle (JProver)Lori2
STM: Agatha Murder Puzzle (JProver)Lori2R

http://www.nuprl.org/FDLcontent/p0_1056173_22_864455_(LoriNewAgatha).html