MANCHESTER Systematic Development and Synthesis of Deduction Approaches Deduction Approaches Name: Kiana Samadpour Motalebi Supervisor Name: Dr. Renate Schmidt Research Group: Formal Methods

Project Aim:

Investigation and development of proof systems for modal logics and its extensions

Focus:

Extension of the tableau synthesis framework
 Implementation of the tableau rule generator

Modal Logic:

- Used to verify systems
- Can be used in agent-based systems
- Model consists of worlds:





