

## Outline for January 20, 2012

**Reading:** §3.3, 3.4, 3.5

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1. Conspiracy
  - a. Access set
  - b. Deletion set
  - c. Conspiracy graph
  - d.  $I, T$  sets
  - e. Theorem:  $can\text{-}share(\alpha, \mathbf{x}, \mathbf{y}, G_0)$  iff there is a path from some  $h(\mathbf{p}) \in I(\mathbf{x})$  to some  $h(\mathbf{q}) \in T(\mathbf{y})$
2. Schematic Protection Model
  - a. Protection type, ticket, function, link predicate, filter function
  - b. Take-Grant as an instance of SPM
  - c. Create rules and attenuation
3. Safety analysis
  - a. Definitions
  - b.  $path^h$  predicate
  - c. Capacity flow function
  - d. Maximal state: definition, existence, derivability
4. Acyclic attenuating schemes and decidability
5. Expressive power
  - a. SPM and HRU
  - b. ESPM and multiparent create
  - c. Simulation and expressiveness