

Outline

Ramon Jansana: Algebraic semantics of logics

1. Basic concepts on algebraic logic
2. Algebraization of Intuitionistic logic and the Gentzen calculus LJ.
3. Algebraization of modal logics.
4. Algebraization of substructural logics and their Gentzen calculi.

Mai Gehrke: (Topo-)Relational semantics via canonical extensions

1. Duality between lattices and spaces: the finite case;
2. Canonical extensions of ordered algebras;
3. Duality and relational semantics via canonical extensions;
6. Canonicity and completeness.

Alessandra Palmigiano: Sahlqvist theory
(the following is tentative)

1. Basic Sahlqvist theory;
2. Examples from modal logic;
3. Logic of space: relational versus topological semantics
4. Examples from substructural logic.