

3. An Algebraic View of Logical Properties of Substructural Logics (1 hour)

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We take up two recent topics that show a deep interconnection between logical properties of logics and algebraic properties of varieties of corresponding algebras. The first one is an algebraic proof of cut elimination by means of quasi-embeddings of Gentzen matrices, and its relation to MacNeille completions and to the finite model property. The second is on relationship between interpolation properties and amalgamation properties. Results are quite general and will be of interest from a viewpoint of algebraic logic.