

Departament de Matemàtiques

Conferència

Stone duality and application to formal languages

Abstract: Stone's representation theorem states that each Boolean algebra has an associated topological space, called its dual space. A similar result holds for bounded distributive lattices (which are essentially Boolean algebras without complement). This dual space has many interesting topological properties and is in particular compact. I will explain the construction of the dual space in a special case and give numerous examples. Then I will describe some surprising applications to formal language theory.

Pre-requirements: Basic notions in topology (in particular, compactness) Basic notions on formal languages may help, but are not mandatory, since all relevant definitions will be given during the lecture.

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Data: Divendres 21 d'octubre de 2016, a las 12.00 h.

Lloc: Seminari de Matemàtiques