

Logikseminariet Stockholm–Uppsala

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Remarks on domain representability and formal topology

The theory of domain representations due to Stoltenberg-Hansen and Tucker gives a method for introducing notions of computability on abstract mathematical structures. The method has been applied successfully to different classes of topological spaces. In this talk we shall start from the observation the formal topology includes a constructive theory of domains. Then we show that every formal topology \mathcal{S} , canonically, gives a domain representation of its space of points $X = \text{Pt}(\mathcal{S})$. There are however clear limitations to the formal topology method, as it only applies to sober spaces. The purpose here is merely to demonstrate one basic connection between the two methods for representing spaces.

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sal 11167, Ångströmlaboratoriet, Uppsala.

<http://www.math.su.se/~jesper/seminarier/>