

SOME OBSERVATIONS REGARDING HYPERSEQUENT CALCULI FOR INTERMEDIATE LOGICS

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ABSTRACT. We investigate proof-theoretic properties of calculi for intermediate logics using algebraic methods. We address the question of which intermediate logics admit cut-free structural hypersequent calculi by introducing a new subclass of stable logics encompassing many well-known intermediate logics for which good calculi are already known. In particular, our class contains all logics axiomatizable by \mathcal{P}_3 -formulas of the substructural hierarchy of (Ciabattoni, Galatos & Terui, 2008).