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Induced Cylindric Algebras of Choice Structures

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(Submitted on 13 Jul 2011)

One of the benefit properties implied by the extensionality axiom of Hilbert's epsilon calculus is that the calculus becomes complete with respect to the choice structures as semantics. Another implication of the axiom, discussed in the paper, is that an algebra is induced over the universe of the canonical model of a theory, which is isomorphic to a quotient algebra of the Lindenbaum--Tarski algebra of the theory. Especially, in the case of Boolean or monadic algebras, the canonical model of the theory of a sigma complete model is isomorphic to the algebra induced by the axiom of extensionality.

Comments: 8 pages, to appear, Bulletin of the Section of Logic, 2011, 3-4

Subjects: **Logic (math.LO)**; Rings and Algebras (math.RA)

MSC classes: 03G05, 03G15, 03C80

ACM classes: F.4.1

Cite as: [arXiv:1107.2603v1](https://arxiv.org/abs/1107.2603v1) [math.LO]

Submission history

From: Zoltan Molnar [[view email](#)]

[v1] Wed, 13 Jul 2011 17:10:25 GMT (6kb)

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