

MR1654292 (2000b:03050) [03B40](#) [03G25](#)**Pigozzi, Don** [[Pigozzi, Don L.](#)] ([1-IASU](#)); **Salibra, Antonino** ([I-VE NE-AM](#))**Lambda abstraction algebras: coordinatizing models of Lambda calculus.****(English summary)***Fund. Inform.* **33** (1998), *no. 2*, 149–200.

Lambda abstraction algebras algebraize the untyped lambda calculus just as combinatory algebras do combinatory logic. Both these classes of algebras form a variety in the sense of universal algebra. This paper derives connections between lambda abstraction algebras, subclasses of these that are “functional”, “locally finite” and “rich”, and combinatory algebras, lambda algebras and lambda models.

The main result of the paper is a stronger version of the functional representation theorem for locally finite lambda abstraction algebras, the algebraic analogue of the completeness theorem of lambda calculus.

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