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Maria Emilia Maietti* (maietti@math.unipd.it), via Trieste n. 63, Dipartimento di Matematica pura ed applicata, Universita' di Padova, 35100 Padova, Italy. *Benefits of the two level minimalist foundation for constructive mathematics.*

In joint work with Giovanni Sambin in '05, we advocated the need of a two level minimalist foundation for constructive mathematics. Then we gave an example of it where each level is represented by a type theory a' la Martin-Loef. Here we describe how such a foundation is consistent with combinations of the formal Church thesis, the axiom of choice and Bar Induction, as advocated in '05. (Received July 11, 2009)