

Dzagnidze, O.; Oniani, G.

On one analogue of Lebesgue theorem on the differentiation of indefinite integral for functions of several variables. (English) [Zbl 1054.26501](#)

Proc. A. Razmadze Math. Inst. 133, 1-5 (2003).

Summary: It is proved that an indefinite n -tuple integral of a summable function on the unit n -dimensional cube is differentiable almost everywhere, moreover, it has a strong gradient almost everywhere.

MSC:

[26B05](#) Continuity and differentiation questions

[26B30](#) Absolutely continuous real functions of several variables, functions of bounded variation

Cited in **1** Document

Keywords:

[differentiability](#); [indefinite integral](#); [strong gradient](#)