Brandolini, L.; Colzani, L.; Robins, S.; Travaglini, G.
Pick’s theorem and convergence of multiple Fourier series. (English) Zbl 1462.42015

In this paper, the authors, in their second theorem, establish a sort of version of famous Pick’s theorem. The result of their second theorem reveals a connection between an original Pick’s theorem and the pointwise convergence of multiple Fourier series of piecewise smooth functions, which is proved by the authors in their first theorem.

Reviewer: Hare Krishna Nigam (Gaya)

MSC:
42B05 Fourier series and coefficients in several variables
52B20 Lattice polytopes in convex geometry (including relations with commutative algebra and algebraic geometry)

Keywords:
Pick’s theorem; convergence of multiple Fourier series

Full Text: DOI

References:
[6] Gerber, A.; Pak, I., Concrete polytopes may not tile the space (2020) · Zbl 1445.52017

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