

**Kolyada, V. I.**

**Estimates of rearrangements and imbedding theorems.** (English. Russian original)

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Math. USSR, Sb. 64, No. 1, 1-21 (1989); translation from Mat. Sb., Nov. Ser. 136(178), No. 1(5), 3-23 (1988).

In the paper the author obtains estimates of rearrangements in terms of integral smoothness. The author uses this estimates to prove embedding theorems.

Reviewer: [St.Wedrychowicz](#)

**MSC:**

- [46E30](#) Spaces of measurable functions ( $L^p$ -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
- [46E35](#) Sobolev spaces and other spaces of “smooth” functions, embedding theorems, trace theorems
- [26A15](#) Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) for real functions in one variable
- [26A16](#) Lipschitz (Hölder) classes
- [30D55](#)  $H^p$ -classes (MSC2000)

Cited in **1** Review  
Cited in **13** Documents

**Keywords:**

$L^p$ -modulus of continuity; Orlicz classes  $\phi(L)$ ; Sobolev and Hardy-Littlewood theorems; estimates of rearrangements in terms of integral smoothness; embedding theorems

**Full Text:** [DOI](#)