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We deal with the spaces of Bessel- and Riesz-type potentials in  $n$ -dimensional Euclidean space. They are constructed by convolutions of generalized Bessel and Riesz kernels with functions from Lebesgue spaces. The results are based on the general ones presented in [1, 2] which reduce the embedding of potentials to the action of combined Hardy-type operators on the positive half-axes. Here, we obtain constructive criteria for embeddings of potentials in rearrangement invariant spaces (RIS) and describe explicitly optimal RIS for such embeddings. Some results of such type were announced in [3].

### **References**

- [1] M.L. Goldman. *On the Cones of Rearrangements for Generalized Bessel and Riesz Potentials*. Complex Variables and Elliptic Equations, 2010, **255**(8-10), 817–832.
- [2] M.L. Goldman. *Optimal Embedding of Generalized Bessel and Riesz Potentials*. Proc. of the Steklov Inst. of Mathematics, 2010, **269**, 85–105.
- [3] M.L. Goldman. *Optimal Embedding of Bessel- and Riesz- type Potentials*. Doklady Mathematics, 2009, **80** (2), 689–693.