GULIYEV A.D.

ON ELIMINATION IN HÖLDER CLASSES FOR NON-LINEAR POTENTIALS

Abstract

In the present paper it's proved that the condition (3) is necessary for elimination of the compact E in C^{α} $(0 < \alpha \le 1)$ class of non-linear potentials of the type

$$u_{\mu}(x) = \int_{R^n} \frac{dy}{|x-y|^{n-1}} \left[\int_{R^n} \frac{d\mu(z)}{|y-z|^{n-1}} \right]^{\frac{1}{p-1}}.$$