THE SHARP SOBOLEV TRACE INEQUALITY IN A LIMITING CASE

YOUNG JA PARK

Abstract. A limiting case of the Sobolev trace inequalities is investigated and the best constant for the case is computed. Moreover, when $n = 1$, the same result is obtained from recognizing the Euler-Lagrange equation for the inequality as the mean curvature formula of plane curves.


Keywords and phrases: Sobolev trace inequality, variational methods, best constant, curves in Euclidean space.

REFERENCES