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Florin Catrina* (catrinaf@stjohns.edu), Mathematics and Computer Science, 8000 Utopia Parkway, New York, NY. *Some Simple Inequalities: Best Constants and Minimizing Functions.*

In this talk we present an interesting fact with regard to the minimizing functions for some Hardy-type inequalities. Such inequalities have been considered in a paper of Caffarelli, Kohn and Nirenberg, in 1984, and by numerous authors in recent years. We treat the situation when the minimizing sequences are selected from the class of smooth functions that vanish both at infinity and in a neighborhood of the origin. (Received November 19, 2007)