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Igor E. Verbitsky* (I.E.Verbitsky@bham.ac.uk), School of Mathematics, University of Birmingham, Edgbaston, Birmingham, B15 2TT, England. *Hessian equations and inequalities*.

We will present some extensions of the Hessian-Sobolev inequality due to Trudinger and Wang, and related global estimates of solutions for a class of Hessian equations. (Received January 14, 2008)