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*On Liouville theorem and the regularity of weak solutions to  
some nonlinear elliptic systems of higher order*

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**Abstract:** The aim of this paper is to show that Liouville type property is a sufficient and necessary condition for the regularity of weak solutions of nonlinear elliptic systems of the higher order.

**Keywords:** regularity of weak solutions, nonlinear elliptic systems

**AMS Subject Classification:** 35J60, 35D10