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(UN)STABILITY AND BORDISM GROUPS IN PDE'S

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This paper is dedicated to R. Thom and L. S. Pontrjagin.

Submitted by M. S. Moslehian

ABSTRACT. In this paper, by using the theory of integral bordism groups in PDE's, previously introduced by Prástaro, we give a new interpretation of the concept of (un)stability in the framework of the geometric theory of PDE's. A geometric criterium to identify stable PDE's and stable solutions of PDE's is given.

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