CORRIGENDUM FOR THE PAPER: "TWO-DIMENSIONAL INVARIANT TORI IN THE NEIGHBORHOOD OF AN ELLIPTIC EQUILIBRIUM OF HAMILTONIAN SYSTEMS" IN ACTA MATH. SIN. (ENGL. SER.) 25 (2009).

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In the paper [1], we claimed that the Hamiltonian system in neighborhood of the equilibrium admits either a four-dimensional invariant disc or an invariant set of positive (n+2)- dimensional Lebesgue measure, both invariant sets are foliated by invariant 2-tori carrying quasi-periodic motions.

However, the proof works only for the proof of the existence of a four dimensional set. So the main Theorem in [1] should be corrected by replacing "$n+2$ dimensional" with "four dimensional".

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References

[1] Hui Lu, Jiangong You, Two-dimensional invariant tori in the neighborhood of an elliptic equilibrium of Hamiltonian systems. Acta Math. Sin. (Engl. Ser.) 25 (2009), no. 8, 1363-1378.