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Abstracts of Short Communications and Posters

Section:

9. Ordinary Differential Equations and Dynamical Systems

1991 MS Classification: 58F
Gan, Shaobo, School of mathematical science, Peking University, China
Star Systems X^* and a Proof of The C^1 Ω Stability
In this paper we give a new proof for the C^1 Ω stability conjecture for flows. Our approach is considerably different from that of Hayashi or Wen, and a good deal of Liao's obstruction sets theory is used.
Ref. S. Hayashi, Connecting invariant manifolds and the solution of the C^1 stability conjecture and Ω-stability conjecture for flows. Annals of Math. **145** (1997), 81-137.
S. T. Liao, The qualitative theory of differential dynamical systems, Science Press, 1996.
L. Wen, on the C^1 stability conjecture for flows, J. D. E (**129**) (1996), 334–357.