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1) TITLE : ON SPHERICAL AND CYLINDRICAL BLOWING-UP AND THE LOSS OF REGULARITY OF INVARIANT MANIFOLDS OF SINGULAR VECTOR FIELDS IN DIMENSIONS TWO AND THREE.

2) ABSTRACT :

There exist two $C^\infty-$Singular Germs of real vector fields in Dimensions two and three which have one Topological Invariant Manifold in two and only one C^1-Invariant Manifold in Dimension Three, so, for Singular $C^\infty-$Germs and each natural integer $k \geq 2$, there can exist no invariant Manifold of class C^k.

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