

A smooth codimension-one foliation of the 5-sphere by  
symplectic leaves

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**Abstract**

We will present the construction of a smooth codimension-one foliation of the 5-sphere by symplectic leaves. In other words, we will construct a smooth foliation by 4-dimensional leaves which are symplectic manifolds and such that the symplectic structure varies smoothly. Therefore, the 5-sphere is a regular Poisson manifold.

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