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**Alberto Verjovsky\***, IM-UNAM. *A smooth codimension-one foliation of the 5-sphere by symplectic leaves.*

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. This is joint work with Pablo Suárez Sarrato. (Received May 05, 2009)