

Symplectic 4-manifolds of the form $S^1 \times N$

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Thurston showed in 1976 that if a 3-manifold N fibers over the circle, then $S^1 \times N$ supports a symplectic structure. We show that the converse holds: if $S^1 \times N$ is symplectic, then N fibers over S^1 . This is joint work with Stefano Vidussi.