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symplectic vector field

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Owner bwebste (988) Last modified by bwebste (988)

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Author bwebste (988) Entry type Definition Classification msc 53D05 If (M, ω) is a symplectic manifold, then a vector field $X \in \mathfrak{X}(M)$ is symplectic if its flow preserves the symplectic structure. That is, if the Lie derivative $\mathcal{L}_X \omega = 0$.