



WHAT IS...

Symplectic Geometry

Tara S. Holm

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Symplectic structures are floppier than holomorphic functions or metrics.

In Euclidean geometry in a vector space over $\mathbb{R}$, lengths and angles are the fundamental measurements, and objects are rigid. In symplectic geometry, a two-dimensional area measurement is the key ingredient, and the complex numbers are the natural scalars. It turns out that sym-

plectic structures are much floppier than holomorphic functions in complex geometry or metrics in Riemannian geometry.

The word “symplectic” is a calque introduced by Hermann Weyl in his textbook on the classical groups. That is, it is a root-by-root translation of the word “complex” from the Latin roots

com = *plura*,

meaning “together – braided,” into the Greek roots with the same meaning,

σ = *σ*.

Weyl suggested this word to describe the Lie group that preserves a nondegenerate skew-symmetric bilinear form. Prior to this, that Lie group was called the “line complex group” or the “Abelian linear group” (after Abel, who studied the group).

A differential 2-form on (real) manifold is a gadget that at any point ϵ eats two tangent vectors and spits out a real number in a skew-symmetric, bilinear way. That is, it gives a family of skew-symmetric bilinear functions

$$(\cdot, \cdot)_{\epsilon} : T_{\epsilon}M \times T_{\epsilon}M \rightarrow \mathbb{R}$$

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depending smoothly on the point ϵ . A 2-form $\omega \in \Omega^2(M)$ is symplectic if it is both closed (its exterior derivative satisfies $d\omega = 0$) and nondegenerate (each function is nondegenerate). Nondegeneracy is equivalent to the statement that for each nonzero tangent vector $v \in T_{\epsilon}M$, there is a symplectic buddy: a vector $w \in T_{\epsilon}M$ so that $\omega(v, w) = 1$. A symplectic manifold is a (real) manifold equipped with a symplectic form.

Nondegeneracy has important consequences. Purely in terms of linear algebra, at any point ϵ we may choose a basis of $T_{\epsilon}M$ that is compatible with ω , using a skew-symmetric analogue of the Gram-Schmidt procedure. We start by choosing any nonzero vector v_1 and then finding a symplectic buddy w_1 . These must be linearly independent by skew-symmetry. We then peel off the two-dimensional subspace that v_1 and w_1 span and continue recursively, eventually arriving at a basis

$$v_1, w_1, \dots, v_n, w_n$$

which contains an even number of basis vectors. So symplectic manifolds are even-dimensional. This also allows us to think of each tangent space as a complex vector space where each v_i and w_i span a complex coordinate subspace. Moreover, the top wedge power, $\omega^n \in \Omega^{2n}(M)$, is nowhere-vanishing, since at each tangent space,

$$\omega^n(v_1, w_1, \dots, v_n, w_n) \neq 0.$$

In other words, ω^n is a volume form, and is necessarily orientable.

Symplectic geometry enjoys connections to algebraic combinatorics, algebraic geometry, dynamics, mathematical physics, and representation theory. The key examples underlying these connections include:

- (1) $\omega = \frac{i}{2} dz \wedge d\bar{z}$ with $\omega(v, w)$ = signed area of the parallelogram spanned by v and w ;
- (2) any Riemann surface as in Figure 1 with the area for ω as in (1);



Figure 1. The area form on a Riemannian surface defines its symplectic geometry.

Symplectic Geometry

Thomas Griffiths



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