

SYMPLECTIC AND LIE ALGEBRAIC TECHNIQUES IN GEOMETRIC OPTICS

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Abstract

We will show the usefulness of the tools of Symplectic and Presymplectic Geometry and the corresponding Lie algebraic methods in different problems in Geometric Optics.

1 Introduction: Symplectic and Presymplectic geometry

Geometric techniques have been applied to physics for more than 50 years in many different ways and they have provided powerful methods of dealing with classical problems from a new geometric perspective. Linear representations of groups, vector fields, forms, exterior differential calculus, Lie groups, fibre bundles, connections and Riemannian Geometry, symmetry and reduction of differential equations, etc... are now well established tools in modern physics. Now, after more than twenty years of using Lie algebraic methods in Optics by Dragt, Forest, Sternberg, Wolf and their coworkers, we aim here to establish the appropriate geometric setting for Geometric Optics. Applications in computation of aberrations for different orders will also be pointed out.

The basic geometric structure for the description of classical (and even quantum) systems is that of symplectic manifold. A *symplectic manifold* is a pair (M, ω) where ω is a nondegenerated closed 2-form in M . If ω is exact we will say that (M, ω) is an *exact symplectic manifold*. Let $\tilde{\omega} : \mathfrak{X}(M) \rightarrow \Lambda^1(M)$ be given by $\tilde{\omega}(X) = i(X)\omega$, $\tilde{\omega}(X)Y = \omega(X, Y)$. The two-form ω is said to be nondegenerate when $\tilde{\omega}$ is a bijective map. Then M is evendimensional and it may be used to identify vector fields on M with 1-forms on M . Vector fields X_H corresponding to exact 1-forms dH are called Hamiltonian vector fields. The 2-form ω is said to be closed if $d\omega = 0$.

The simplest example is \mathbb{R}^{2n} with coordinates $(q^1, \dots, q^n, p_1, \dots, p_n)$ endowed with the constant 2-form $\omega = \sum_{i=1}^n dq^i \wedge dp_i$. Closedness of ω is very important because Darboux theorem establishes that for any point $u \in M$ there exists a local chart (U, ϕ) such that if $\phi = (q^1, \dots, q^n; p_1, \dots, p_n)$, then $\omega|_U = \sum_{i=1}^n dq^i \wedge dp_i$. Consequently, the example above is the local prototype of a symplectic manifold. It is also well known that if Q is the configuration space of a system, its cotangent bundle, $T^*Q = \bigcup_{q \in Q} T_q^*Q$, called phase space, is endowed with a canonical 1-form θ on T^*Q such that $(T^*Q, -d\theta)$ is an exact symplectic manifold. More specifically, if (q^1, \dots, q^n) are coordinates in Q then $(q^1, \dots, q^n, p_1, \dots, p_n)$ are coordinates in T^*Q and $\theta = \sum_{i=1}^n p_i dq^i$, $\omega = \sum_{i=1}^n dq^i \wedge dp_i$.

A Hamiltonian dynamical system is a triplet (M, ω, H) where M is a differentiable manifold, $\omega \in \mathcal{Z}^2(M)$ is a symplectic form in M and $H \in C^\infty(M)$ is a function called Hamiltonian. The

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