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## Lagrangian Submanifolds Foliated by $(n-1)$ -Spheres in $\mathbb{R}^{2n}$

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收稿日期 2004-4-22 修回日期 网络版发布日期 2006-7-15 接受日期 2004-10-25

**摘要** We study Lagrangian submanifolds foliated by  $(n-1)$ -spheres in  $\mathbb{R}^{2n}$  for  $n \geq 3$ . We give a general parametrization for such submanifolds, and refine that description when the submanifold is special Lagrangian, self-similar, Hamiltonian stationary or has mean curvature vector of constant length. In all these cases, the submanifold is *centered*, i.e. invariant under the action of  $SO(n)$ . It suffices then to solve a simple ODE in two variables to describe the geometry of the solutions.

**关键词** [Lagrangian submanifold](#) [special Lagrangian](#) [self-similar](#) [Hamiltonian stationary](#)

分类号 [53D12](#)

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**Key words** [Lagrangian submanifold](#) [special Lagrangian](#) [self-similar](#) [Hamiltonian stationary](#)

DOI: 10.1007/s10114-005-0690-6

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