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Special Lagrangian 4-folds with \$SO(2)\rtimes S_3\$-Symmetry in **Complex Space Forms**

Franki Dillen, Christine Scharlach, Kristof Schoels, Luc Vrancken (Submitted on 5 Jul 2011)

In this article we obtain a classification of special Lagrangian submanifolds in complex space forms subject to an \$SO(2)\rtimes S_3\$-symmetry on the second fundamental form. The algebraic structure of this form has been obtained by Marianty Ionel. However, the classification of special Lagrangian submanifolds in \$\mathbb{C}^4\$ having this \$SO(2)\rtimes S_3\$ symmetry in that paper is incomplete. In the present paper we give a complete classification of such submanifolds, and extend the classification to special Lagrangian submanifolds of arbitrary complex space forms with \$SO(2)\rtimes S_3\$-symmetry.

Subjects: Differential Geometry (math.DG); Symplectic Geometry

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MSC classes: 53D12, 53B25

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