

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Multiple fibers of holomorphic Lagrangian fibration

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Abstract

In collaboration with Keiji Oguiso, we study the structure of a general singular fiber of a holomorphic Lagrangian fibration. In a previous work, we showed that the structure can be understood in terms of characteristic cycles modulo the multiplicity of the fiber, and the characteristic cycles are exactly Kodaira's singular elliptic fibers, with one exception of an infinite cycle. In a recent joint work, we determined all possible values of the multiplicity of a general singular fiber. The multiplicities are at most 6 and the possible values are intricately related to the Kodaira type of the characteristic cycle.

Date: July 28, 2009 (Tuesday)

Time: 4:00 - 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome