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# SYMPLECTIC CALABI-YAU 4-MANIFOLDS VIA ORBIFOLD COVERING

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## Abstract

Let  $X$  be a symplectic 4-orbifold whose singular set consists of embedded surfaces and isolated points, and whose canonical class is vanishing (in rational coefficient). We will explain how to construct symplectic Calabi-Yau 4-manifolds from such an orbifold. Furthermore, we will discuss some potential examples of such orbifolds which can not support complex structures, which may lead to new examples of symplectic Calabi-Yau 4-manifolds.

**Date :** Wednesday, June 24, 2020

**Time:** 11:00

**Place:** IMBM Seminar Room, Boğaziçi University South Campus