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Abelianity Conjecture for special threefolds

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(Submitted on 1 Jul 2011)

Using orbifold metrics of the appropriately signed Ricci curvature on orbifolds with negative or numerically trivial canonical bundle and the two-dimensional Log Minimal Model Program, we prove that the fundamental group of special compact K\"ahler threefolds is almost abelian. This property was conjectured in all dimensions in [Cam04b], and also for orbifolds in [Cam07], where the notion of specialness was introduced. We briefly recall below the definition, basic properties, and the role of special manifolds in classification theory.

Comments:	19 pages, 3 figures (in Appendix). Comments are wellcome
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