The workshop on *Arithmetic and geometry of K3 surfaces and Calabi–Yau threefolds* was held at the Fields Institute and University of Toronto from August 16 to 25, 2011. The workshop was organized by Charles F. Doran (Alberta), Shigeyuki Kondō (Nagoya), Radu Laza (Stony Brook), James D. Lewis (Alberta), Matthias Schütt (Hannover), and Noriko Yui (Kingston/Fields).

This proceedings volume for the 2011 Calabi–Yau workshop is edited by Radu Laza, Matthias Schütt, and Noriko Yui. The editors wish to express their appreciation to all the contributors for preparing their manuscripts for the Fields Communications Series, which required extra effort in presenting not only current developments but also some background material on the discussed topics. All papers in this volume were peer-reviewed. We are deeply grateful to all the referees for their efforts in evaluating the articles, in particular, in the limited time frame.

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