



Title	Hodge Theory and Algebraic Geometry
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Description	Hodge Theory and Algebraic Geometry 2002/10/7-11 Department of Mathematics, Hokkaido University 石井志保子 (東工大) Nash problem on arc families for singularities 内藤広嗣 (名大 多元) 村上雅亮 (京大理) Surfaces with $c^2_1 = 3$ and $\kappa(0) = 2$ , which have non-trivial 3-torsion divisors 大野浩二 (大阪大) On certain boundedness of fibred Calabi-Yau 3-folds 阿部健 (京大理) 春井岳 (大阪大) The gonality of curves on an elliptic ruled surface 山下剛 (東大数理) 開多様体の $p$ -進 étale cohomology と crystalline cohomology 中島幸喜 (東京電機大) Théorie de Hodge III pour cohomologies $p$ -adiques 皆川龍博 (東工大) On classification of weakened Fano 3-folds 齊藤夏男 (東大数理) Fano threefold in positive characteristic 石井亮 (京大工) Variation of the representation moduli of the McKay quiver 前野俊昭 (京大理) 群のコホモロジーと量子変形 宮岡洋一 (東大数理) 次数が低い有理曲線とファノ多様体 池田京司 (大阪大) Subvarieties of generic hypersurfaces in a projective toric variety 竹田雄一郎 (九大数理) Complexes of hermitian cubes and the Zagier conjecture 臼井三平 (大阪大) $SL(2)$ -orbit theorem and log Hodge structures (Joint work with Kazuya Kato) 鈴木香織 (東大数理) $\rho(X) = 1$ , $f \leq 2$ の $Q$ -Fano 3-fold Fano の分類
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## Preface

This volume is intended to the proceedings of Hodge theory and its application to algebraic geometry, held on October 7 through October 11 at Department of Mathematics, Hokkaido University.

In this workshop, we mainly intended to collect young resercher's works, because this is one of the activities of the Hokkaido universitie's grant named "Mirai-Chyoryu Grant".

We hope this book will provide accessible to japanese young reserchers works and results which related to Hodge theory and algebraic geometry.

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2003. Feb. 14. D.Matsushita at Sapporo.