

## Contents

Preface	vii
List of talks	ix
List of participants	xiii
Orbifold deconstruction: a computational approach PETER BANTAY	1
The level one Zhu algebra for the Virasoro vertex operator algebra KATRINA BARRON, NATHAN VANDER WERF, and JINWEI YANG	17
Period relations for Riemann surfaces with many automorphisms LUCA CANDELORI, JACK FOGLIASSO, CHRISTOPHER MARKS, and SKIP MOSES	45
On the Landau-Ginzburg/conformal field theory correspondence ANA ROS CAMACHO	61
From the Monster to Thompson to O’Nan JOHN F. R. DUNCAN	73
Nonabelian Hodge theory and vector valued modular forms CAMERON FRANC and STEVEN RAYAN	95
Research topics in finite groups and vertex algebras ROBERT L. GRIESS, JR.	119
Automorphism group of an orbifold vertex operator algebra associated with the Leech lattice CHING HUNG LAM	127
Some numeric hypergeometric supercongruences LING LONG	139
Vertex operator algebras with central charge 8 and 16 KIYOKAZU NAGATOMO, GEOFFREY MASON, and YUICHI SAKAI	157
Pseudo-characters of the symplectic fermions and modular linear differential equations KIYOKAZU NAGATOMO, YAMATO KUROKAWA, and YUICHI SAKAI	187
Five not-so-easy pieces: open problems about vertex rings GEOFFREY MASON	213

Vertex operator algebras and modular invariance MASAHIKO MIYAMOTO
----------------------------------------------------------------------

233