Contents

The exact limit of some cubic towers
Nurdagül Anbar, Peter Beelen, and Nhut Nguyen 1

Error-correction capability of Reed-Muller codes
Stéphanie Dib and François Rodier 17

Optimal and maximal singular curves
Yves Aubry and Annamaria Iezzi 31

An infinite class of Kasami functions that are not APN infinitely often
Eric Férard 45

Covariant algebra of the binary nonic and the binary decimic
Reynald Lercier and Marc Olive 65

On some bounds for symmetric tensor rank of multiplication in finite fields
Stéphane Ballet, Julia Pieltant, Matthieu Rambaud, and Jeroen Sijsling 93

Codes from Jacobian surfaces
Safia Haloui 123

A new proof of a Thomae-like formula for non hyperelliptic genus 3 curves
Enric Nart and Christophe Ritzenthaler 137

Remarks on the Tsfasman-Boguslavsky Conjecture and higher weights of projective Reed-Muller codes
Mrinmoy Datta and Sudhir R. Ghorpade 157

Secret sharing schemes with strong multiplication and a large number of players from toric varieties
Johan P. Hansen 171

Field extensions and index calculus on algebraic curves
Vanessa Vitse 187