

**Reed-Muller Workshop
May 28, 2021**

A Virtual Workshop

Program

All times are GMT (There is a convenient time converter [here](#).)

11:00 Opening Remarks

11:05 – 11:35 Session I:

The Multiplicative Complexity of Boolean Functions
Mathias Soeken, Federal Institute of Technology Lausanne, Switzerland

11:35 – 12:35 Session II:

Polynomial Formal Verification of Area-efficient and Fast Adders
Alireza Mahzoon and Rolf Drechsler

Analysis of Quantum Circuits with Boolean Inputs using the XBOOLE Monitor XBM 2
Bernd Steinbach and Martin Lukac

Further Results on Ternary Functions with Bent Reed-Muller-Fourier Spectra
Claudio Moraga, Radomir S. Stanković and Milena Stanković

Experiments Toward Determining Distances of Quadratic Ternary Bent Functions Constructed by
FFT-like Permutation Matrices
Radomir S. Stanković, Milena Stanković, Claudio Moraga and Jaakko T. Astola

12:35 – 12:45 10 Minute Break

12:45 – 13:30 Session III:

Fast Literal Transformations for Symmetric Functions
Tsutomu Sasao and Jon T. Butler

An Improved SAT-based ESOP Minimizer: A List of Minimal ESOPs for 8-Variable Symmetric
Functions
Tomoyuki Fujita, Tsutomu Sasao and Yukihiro Iguchi

ANF Computation of Cryptographic Switching Functions using a Netlist Representation
David K. Houngrinou, D. Michael Miller and Mitchell A. Thornton

13:30 Closing Remarks