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Nota di contenuto	-- Isogeny-Based Cryptography. -- Efficient Theta-Based Algorithms for Computing (,)-Isogenies on Kummer Surfaces for Arbitrary Odd . -- Commuting Ramanujan Graphs and the Random Self-Reducibility of Isogeny Problems. -- Cryptanalysis. -- Discrete Gaussian Sampling for BKZ-Reduced Basis. -- An Efficient Collision Attack on Castryck-Decru-Smith's Hash Function. -- Heuristic Algorithm for Solving Restricted SVP and its Applications. -- Cryptanalysis of an Efficient Signature Based on Isotropic Quadratic Forms. -- Analysis of REDOG: the Pad Thai Attack. -- Quantum Security. -- Quantum IND-CPA Security Notions for AEAD. -- Reducing the Number of Qubits in Solving LWE. -- Side-Channel Attacks. -- Single Trace Side-Channel Attack on the MPC-in-the-Head Framework. -- Et tu, Brute? Side-Channel Assisted Chosen Ciphertext Attacks using Valid Ciphertexts on HQC KEM. -- Security Notions. -- Treating Dishonest Ciphertexts in Post-Quantum KEMs – Explicit vs Implicit Rejection in the FO Transform. -- IND-CPAC: A New Security Notion for Conditional

Sommario/riassunto

The two-volume set LNCS 15577 + 15578 constitutes the proceedings of the 16th International Workshop on Post-Quantum Cryptography, PQCrypto 2025, held in Taipei, Taiwan, during April 8–10, 2025. The 25 full papers presented in the proceedings were carefully selected and reviewed from 59 submissions. The papers have been organized in the following topical sections: Part I: Code-Based Cryptography; Multivariate Cryptography; Lattice-Based Cryptography. Part II: Isogeny-Based Cryptography; Cryptanalysis; Quantum Security; Side-Channel Attacks; Security Notions.