Sunday, November 29		
14:00-18:00	Registration	
15:00-17:00	Traditional Maori welcome ceremony at Waipapa Marae	

Monday, November 30			
8:00-9:15			
9:15-9:30	Welcome		
9:30-10:30	Invited Lecture I (Jung Hee Cheon) Structure-Preserving Cryptography; Masayuki Abe; NTT Secure Platform Laboratories, Japan		
10:30-10:40	Conference Photo		
10:40-11:10	Coffee Break		
11:10-11:35	Best Paper (Jung Hee Cheon) Improved security proofs in lattice-based cryptography: using the Rényi divergence rather than the statistical distance; Shi Bai; Adeline Langlois; Tancrède Lepoint; Damien Stehlé; Ron Steinfeld		
	ndistinguishability Obfuscation (Sherman Chow)	Hashes and MACs (Lai Xuejia)	
11:40-12:05	 Multi-Input Functional Encryption for Unbounded Arity Functions; Saikrishna Badrinarayanan; Divya Gupta; Abhishek Jain; Amit Sahai 	■ Tradeoff Cryptanalysis of Memory-Hard Functions; <i>Alex Biryukov; Dmitry Khovratovich</i>	
12:05-12:30	 Multi-Party Key Exchange for Unbounded Parties from Indistinguishability Obfuscation; Dakshita Khurana; Vanishree Rao; Amit Sahai 	■ Generic Security of NMAC and HMAC with Input Whitening; <i>Peter Gaži; Krzysztof Pietrzak; Stefano Tessaro</i>	
12:30-13:50	Buffet Lunch in conference venue foyer		
	PRFs and Hashes (Huaxiong Wang)	Symmetric Encryption (Stefano Tessaro)	
13:50-14:15	Adaptively Secure Puncturable Pseudorandom Functions in the Standard Model; Susan Hohenberger; Venkata Koppula; Brent Waters	■ A Synthetic Indifferentiability Analysis of Interleaved Double-Key Even-Mansour Ciphers; Chun Guo; Dongdai Lin	
14:15-14:40	Multilinear and Aggregate Pseudorandom Functions: New Constructions and Improved Security; Michel Abdalla; Fabrice Benhamouda; Alain Passelègue	 Beyond-Birthday-Bound Security for Tweakable Even- Mansour Ciphers with Linear Tweak and Key Mixing; Benoit Cogliati and Yannick Seurin 	
14:40-15:05	 New Realizations of Somewhere Statistically Binding Hashing and Positional Accumulators; Tatsuaki Okamoto; Krzysztof Pietrzak; Brent Waters; Daniel Wichs 	An Inverse-free Single Keyed Tweakable Enciphering Scheme; Ritam Bhaumik; Mridul Nandi	
15:05-15:30	Coffee Break	L	
		Foundations (Rei Safavi-Naini)	
15:30-15:55	■ Computing Individual Discrete Logarithms Faster in GF(p^n) with the NFS-DL Algorithm; <i>Aurore Guillevic</i>	 On Black-Box Complexity of Universally Composable Security in the CRS model; Carmit Hazay; Muthuramakrishnan Venkitasubramaniam 	
15:55-16:20	 Multiple Discrete Logarithm Problem with Auxiliary Inputs; Taechan Kim 	■ Public Verifiability in the Covert Model (Almost) for Free; Vladimir Kolesnikov; Alex J. Malozemoff	
16:20-16:45	■ Solving Linear Equations Modulo Unknown Divisors: Revisited; <i>Yao Lu; Rui Zhang; Liqiang Peng; Dongdai Lin</i>	■ Limits of Extractability Assumptions with Distributional Auxiliary Input; <i>Elette Boyle; Rafael Pass</i>	
16:45-17:10	■ FourQ: four-dimensional decompositions on a Q-curve over the Mersenne Prime; <i>Craig Costello; Patrick Longa</i>	■ Composable & Modular Anonymous Credentials: Definitions and Practical Constructions; <i>Jan Camenisch;</i> <i>Maria Dubovitskaya; Kristiyan Haralambiev; Markulf</i> <i>Kohlweiss</i>	

Tuesday, December 1		
9:00-10:00	Invited Lecture II (Tetsu Iwata) Computer-Aided Cryptography: Status and Perspectives, Gilles Barthe, IMDEA Software Institute, Spain	
10:05-10:30	Attacks on ASASA (Invited to JoC) (Tetsu Iwata) Key-Recovery Attacks on ASASA; Brice Minaud; Patrick Derbez; Pierre-Alain Fouque; Pierre Karpman	
10:30-11:00	Coffee Break	
	Signatures (Mehdi Tibouchi)	Side-Channel Attacks (Josef Pieprzyk)
11:00-11:25	 Efficient Fully Structure-Preserving Signatures for Large Messages; Jens Groth 	ASCA, SASCA and DPA with Enumeration: Which One Beats the Other and When?; Vincent Grosso; François- Xavier Standaert
11:25-11:50	■ A Provably Secure Group Signature Scheme from Code- Based Assumptions; <i>Martianus Frederic Ezerman; Hyung</i> <i>Tae Lee; San Ling; Khoa Nguyen; Huaxiong Wang</i>	■ Counting Keys in Parallel After a Side Channel Attack; Daniel P. Martin; Jonathan F. O'Connell; Elisabeth Oswald; Martijn Stam
11:50-12:15	■ Type 2 Structure-Preserving Signature Schemes Revisited; Sanjit Chatterjee; Alfred Menezes	 A Unified Metric for Quantifying Information Leakage of Cryptographic Devices under Power Analysis Attacks; Liwei Zhang; A. Adam Ding; Yunsi Fei; Pei Luo
12:15-12:40	■ Design Principles for HFEv- based Multivariate Signature Schemes; Albrecht Petzoldt; Ming-Shing Chen; Bo-Yin Yang; Chengdong Tao; Jintai Ding	■ How Secure is AES under Leakage; <i>Andrey Bogdanov; Takanori Isobe</i>
12:40-14:00	Light Lunch in conference venue foyer	
	Free Afternoon	
18:30-22:00	Rump Session (Nigel Smart)	

16.30-22.00	Kump Session (Niger Smart)	
	Wednesday, Dece	mber 2
9:00-10:00	Invited Lecture III, IACR Distinguished Lecture (Steven Galbraith) The Moral Character of Cryptographic Work; Phillip Rogaway, University of California, Davis, USA	
10:00-10:30	Coffee Break	
10:30-10:55	Number Field Sieve (Invited to JoC) (Steven Galbraith) The Tower Number Field Sieve; Razvan Barbulescu; Pierrick Gaudry; Thorsten Kleinjung	
	Multiparty Computation (Nigel Smart)	Design of Block Ciphers (Bart Mennink)
11:00-11:25	 Oblivious Network RAM and Leveraging Parallelism to Achieve Obliviousness; Dana Dachman-Soled; Chang Liu; Charalampos Papamanthou; Elaine Shi; Uzi Vishkin 	 On the Optimality of Non-Linear Computations of Length- Preserving Encryption Schemes; Mridul Nandi
11:25-11:50	■ Three-Party ORAM for Secure Computation; <i>Sky Faber;</i> Stanislaw Jarecki; Sotirios Kentros; Boyang Wei	■ Midori: A Block Cipher for Low Energy; Subhadeep Banik Andrey Bogdanov; Takanori Isobe; Kyoji Shibutani; Harunaga Hiwatari; Toru Akishita; Francesco Regazzoni
11:50-12:15	 On Cut-and-Choose Oblivious Transfer and Its Variants; Vladimir Kolesnikov; Ranjit Kumaresan 	 Optimally-Secure Block Ciphers from Ideal Primitives; Stefano Tessaro
12:15-13:30	Buffet Lunch in conference venue foyer	
	Public Key Encryption (Tatsuaki Okamoto)	Authenticated Encryption (Yu Sasaki)
13:30-13:55	 An Asymptotically Optimal Method for Converting Bit Encryption to Multi-Bit Encryption; Takahiro Matsuda; Goichiro Hanaoka 	Security of Full-State Keyed and Duplex Sponge: Applications to Authenticated Encryption; Bart Mennink; Reza Reyhanitabar; Damian Vizár
13:55-14:20	■ Selective Opening Security for Receivers; <i>Carmit Hazay;</i> Arpita Patra; Bogdan Warinschi	Heuristic Tool for Linear Cryptanalysis with Applications to CAESAR Candidates; Christoph Dobraunig; Maria Eichlseder; Florian Mendel
14:20-14:45	■ Function-Hiding Inner Product Encryption; Allison Bishop; Abhishek Jain; Lucas Kowalczyk	Collision Attacks against CAESAR Candidates Forgery and Key-Recovery against AEZ and Marble; Thomas Fuhr; Gaëtan Leurent; Valentin Suder

14:45-15:15	Coffee Break	
	ABE and IBE (Sherman Chow)	Symmetric Analysis (Bart Preneel)
15:15-15:40	■ Idealizing Identity-Based Encryption; <i>Dennis Hofheinz;</i> Christian Matt; Ueli Maurer	■ Optimized Interpolation Attacks on LowMC; <i>Itai Dinur;</i> Yunwen Liu; Willi Meier; Qingju Wang
15:40-16:05	■ A Framework for Identity-Based Encryption with Almost Tight Security; Nuttapong Attrapadung; Goichiro Hanaoka; Shota Yamada	 Another Tradoff Attack on Sprout-like Stream Ciphers; Bin Zhang; Xinxin Gong
16:05-16:30	■ Riding on Asymmetry: Efficient ABE for Branching Programs; <i>Sergey Gorbunov; Dhinakaran Vinayagamurthy</i>	■ Reverse-engineering of the cryptanalytic attack used in the Flame super-malware; <i>Max Fillinger; Marc Stevens</i>
16:30-16:55	■ Conversions among Several Classes of Predicate Encryption and Applications to ABE with Various Compactness Tradeoffs; Nuttapong Attrapadung; Goichiro Hanaoka; Shota Yamada	Analysis of SHA-512/224 and SHA-512/256; Christoph Dobraunig, Maria Eichlseder; Florian Mendel
17:15-18:30	IACR Membership Meeting	
19:00	Conference Banquet	

Thursday, December 3		
	Zero-Knowledge (Jens Groth)	Cryptanalysis (Jian Guo)
9:00-9:25	 QA-NIZK Arguments in Asymmetric Groups: New Tools and New Constructions; Alonso González, Alejandro Hevia; Carla Ràfols 	On the Impact of Known-Key Attacks on Hash Functions; Bart Mennink; Bart Preneel
9:25-9:50	■ Dual-System Simulation-Soundness with Applications to UC-PAKE and More; <i>Charanjit S. Jutla; Arnab Roy</i>	■ Property Preserving Symmetric Encryption Revisited; Sanjit Chatterjee; M. Prem Laxman Das
9:50-10:15	 Secret Sharing and Statistical Zero Knowledge; Vinod Vaikuntanathan; Prashant N. Vasudevan 	■ Refinements of the k-tree Algorithm for the Generalized Birthday Problem; <i>Ivica Nikolić; Yu Sasaki</i>
10:15-10:40	■ Compactly Hiding Linear Spans: Tightly Secure Constant- Size Simulation-Sound QA-NIZK Proofs and Applications; Benoît Libert; Thomas Peters; Marc Joye; Moti Yung	How to Sequentialize Independent Parallel Attacks?; Sonia M. Bogos; Serge Vaudenay
10:40-11:10	Coffee Break	
	Multiparty Computation II (Rafael Pass)	Privacy and Lattices (Noboru Kunihiro)
11:10-11:35	A Unified Approach to MPC with Preprocessing using OT; Tore Kasper Frederiksen; Marcel Keller; Emmanuela Orsini; Peter Scholl	Pure Differential Privacy for Rectangle Queries via Private Partitions; Cynthia Dwork; Moni Naor; Omer Reingold; Guy Rothblum
11:35-12:00	■ Secure Computation from Millionaire; <i>abhi shelat; Muthuramakrishnan Venkitasubramaniam</i>	■ Implementing Candidate Graded Encoding Schemes from Ideal Lattices; Martin R. Albrecht; Catalin Cocis; Fabien Laguillaumie; Adeline Langlois
12:00-12:25	■ Garbling Scheme for Formulas with Constant Size of Garbled Gates; <i>Carmen Kempka; Ryo Kikuchi; Susumu Kiyoshima; Koutarou Suzuki</i>	New Circular Security Counterexamples from Decision Linear and Learning with Errors; Allison Bishop; Susan Hohenberger; Brent Waters
12:25-12:50	 Card-based Cryptographic Protocols using a Minimal Number of Cards; Alexander Koch; Stefan Walzer; Kevin Härtel 	
12:50-14:00	Light Lunch in conference venue foyer	
14:00	Adieu	