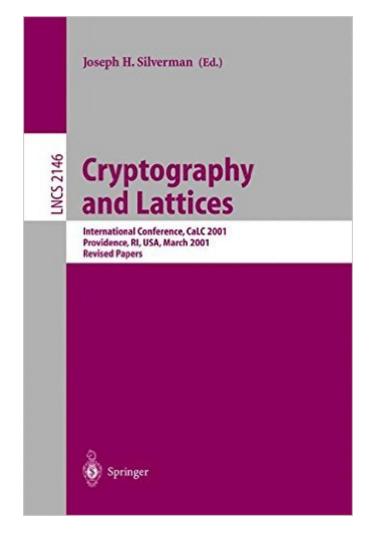
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Synopsis

ThesearetheproceedingsofCaLC2001,the?rstconferencedevotedtocr- tographyandlattices. Wehavelongbelievedthattheimportanceoflattices and lattice reduction incryptography, both for cryptographic construction and cryptographicanalysis, meritsagatheringdevoted to thistopic. The enthusiastic responsethatwereceivedfromtheprogramcommittee, the invited speakers, the manypeoplewhosubmittedpapers, and the 90 registered participants amply con?rmedthewidespreadinterestinlatticesandtheircryptographicappli- tions. WethankeveryonewhoseinvolvementmadeCaLCsuchasuccessfulevent; inparticularwethankNatalieJohnson,LarryLarrivee,DoreenPappas,andthe BrownUniversityMathematicsDepartmentfortheirassistanceandsupport. March2001 Je?reyHo?stein,JillPipher,JosephSilverman VI Preface Organization CaLC2001wasorganizedbytheDepartmentofMathematicsatBrownUniv-sity. Theprogramchairsexpresstheirthankstotheprogramcommiteeandthe additionalexternalrefereesfortheirhelpinselectingthepapersforCaLC2001. TheprogramchairswouldalsoliketothankNTRUCryptosystemsforproviding ?nancialsupportfortheconference. Program Commitee DonCoppersmith IBMResearch Je?reyHo?stein(co-chair), BrownUniversityandNTRUCryptosystems ArjenLenstra Citibank,USA PhongNguyen ENS AndrewOdlyzko AT&TLabsResearch JosephH. Silverman(co-chair), BrownUniversityandNTRUCryptosystems External Referees AliAkhavi,GlennDurfee,NickHowgrave-Graham,DanieleMicciancio Sponsoring Institutions NTRUCryptosystems, Inc., Burlington, MA Table of Contents An Overveiw of the Sieve Algorithm forthe Shortest Lattice Vector Problem 1 Miklos Ajtai, Ravi Kumar, and Dandapani Sivakumar Low ofNyberg-Rueppel andOther DSA-LikeSignatureSchemes with Partially Known Nonces:..... 97 Edwin El Mahassni, Phong Q. Nguyen, and Igor E. Shparlinski Dimension Reduction Methods for Convolution Modular Lattices :::::::: 110 Alexander May and

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