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I'll look into discussion of the

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fundamental volume of the tiling  
over  $H^3$ . In Chapter 11 they  
discuss Tamagawa measure. If  $A$   
is a quaternion algebra, and  $O \subseteq A$   
is a maximal order then we've  
got a formula for the volume:  $\text{Vol}$   
 $(SL(2, C) / \rho(O)) = |\Delta_k|^{3/2}$   
 $\zeta_k(2) \prod_P |N(A)(N(P) - 1)|$

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Une algèbre de quaternions sur  $k$  est une algèbre  $Q = (a, b) = k \oplus k \cdot i \oplus k \cdot j \oplus k \cdot ij$  avec règles de

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multiplication  $i^2 = a, j^2 = b, ij + ji = 0$ , où  $a, b \in k \times$ . Elle est munie d'une involution (canonique)  $\sigma(x + yi + zj + wij) = x - yi - zj - wij$ .

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This text is an introduction to the  
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spectral theory of the Laplacian on compact or finite area hyperbolic surfaces. For some of these surfaces, called “arithmetic hyperbolic surfaces”, the eigenfunctions are of arithmetic nature, and one may use analytic tools as well as powerful methods



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number theory to study them. After an introduction to the hyperbolic geometry of surfaces, with a special emphasis on those of arithmetic type, and then an introduction to spectral analytic methods on the Laplace operator on these surfaces, the author

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develops the analogy between geometry (closed geodesics) and arithmetic (prime numbers) in proving the Selberg trace formula. Along with important number theoretic applications, the author exhibits applications of these tools to the spectral

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statistics of the Laplacian and the quantum unique ergodicity property. The latter refers to the arithmetic quantum unique ergodicity theorem, recently proved by Elon Lindenstrauss. The fruit of several graduate level courses at Orsay and Jussieu, The

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allows the reader to review an  
array of classical results and then  
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Shimura curves are a far-reaching generalization of the classical modular curves. They lie at the crossroads of many areas, including complex analysis, hyperbolic geometry, algebraic

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presents Shimura curves from a  
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Shimura curves defined over the  
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construction of their fundamental

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domains, and the determination of their complex multiplication points. The study of complex multiplication points in Shimura curves leads to the study of families of binary quadratic forms with algebraic coefficients and to their classification by

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De Quaterniones arithmetic Fuchsian groups. In this regard, the authors develop a theory full of new possibilities that parallels Gauss' theory on the classification of binary quadratic forms with integral coefficients by the action of the modular group. This is one of the few available



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with a broad spectrum of mathematical areas including number theory, geometry, and K-theory. This volume contains survey and research articles covering the range of connections among these topics.

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researchers in physics or engineering. As with the introductory book entitled "Harmonic Analysis on Symmetric Spaces - Euclidean Space, the Sphere, and the Poincaré Upper Half Plane, the style is informal with an emphasis on motivation,

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concrete examples, history, and applications. The symmetric spaces considered here are quotients  $X=G/K$ , where  $G$  is a non-compact real Lie group, such as the general linear group  $GL(n,P)$  of all  $n \times n$  non-singular real matrices, and  $K=O(n)$ , the

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De Quaternions maximal compact subgroup of orthogonal matrices. Other examples are Siegel's upper half "plane" and the quaternionic upper half "plane". In the case of the general linear group, one can identify  $X$  with the space  $P_n$  of  $n \times n$  positive definite symmetric

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matrices. Many corrections and updates have been incorporated in this new edition. Updates include discussions of random matrix theory and quantum chaos, as well as recent research on modular forms and their corresponding L-functions in



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higher rank. Many applications have been added, such as the solution of the heat equation on  $P_n$ , the central limit theorem of Donald St. P. Richards for  $P_n$ , results on densest lattice packing of spheres in Euclidean space, and  $GL(n)$ -analogs of the Weyl

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Law for eigenvalues of the Laplacian in plane domains. Topics featured throughout the text include inversion formulas for Fourier transforms, central limit theorems, fundamental domains in  $X$  for discrete groups  $\Gamma$  (such as the modular group  $GL(n, \mathbb{Z})$  of  $n \times$

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n matrices with integer entries and determinant  $\pm 1$ ), connections with the problem of finding densest lattice packings of spheres in Euclidean space, automorphic forms, Hecke operators, L-functions, and the Selberg trace formula and its

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applications in spectral theory as well as number theory.

Most people tend to view number theory as the very paradigm of pure mathematics. With the advent of computers, however, number theory has been finding

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An increasing number of applications in practical settings, such as in cryptography, random number generation, coding theory, and even concert hall acoustics. Yet other applications are still emerging - providing number theorists with some

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major new areas of opportunity. The 1996 IMA summer program on Emerging Applications of Number Theory was aimed at stimulating further work with some of these newest (and most attractive) applications. Concentration was on number

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theory's recent links with: (a) wave phenomena in quantum mechanics (more specifically, quantum chaos); and (b) graph theory (especially expander graphs and related spectral theory). This volume contains the contributed papers from that

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meeting and will be of interest to anyone intrigued by novel applications of modern number-theoretical techniques.

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number theory to attack  
problems of 3-manifolds; Contains  
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