MORNING LECTURES

E BOMBIERI   General weight functions in the linear
                      sieve.
                      Arithmetical theory of G-functions.

P ERDÖS   Unsolved problems.

C HOOLEY   Some problems of Waring's type.

L.-K. HUA and Y WANG Applications in numerical analysis of
                      diophantine approximation and
                      uniform distribution in many
                      dimensions.

H IWANIEC   The general setting of the combinatorial
                      sieve of Rosser and the iterative
                      sieve of Buchstab.
                      The bilinear form of the remainder term
                      in the linear sieve.
                      Application to various questions about
                      primes and almost-primes.

H MONTGOMERY   Squarefree numbers.
                      Bernstein's Inequality for finite intervals
                      Size of the error term in the prime
                      number theorem.

C.-d. PAN   A new mean value theorem and its
                      applications.

S J PATTERSON   The distribution of general Gauss
                      sums over prime arguments.

A SELBERG   Sixty years of sieve methods.
                      Results on the value distribution of
                      zeta functions and similar
                      functions.

W SCHMIDT   Diophantine inequalities for forms of
                      odd degree.

(i) Modular functions

A O L Atkin	Modular functions and the Fischer-Griess monster.
H Stark	An analogue of the Mertens conjecture for Dirichlet series associated with cusp forms.
W Li	On a theorem of Hecke-Weil-Jacquet-Langlands.
A Good	Taylor coefficients of cusp forms at points within the upper half plane.

Two other talks (the titles of which I cannot trace) were given by Professors Terras and Vigneras.

(ii) Zeta function, Dirichlet L-functions and zero density theory

D R Heath-Brown	Mean values of the zeta function, and divisor problems.
M Jutila	Zeros of L-functions near the critical line.
J Pintz	Irregularities in the distribution of primes.
D Wolke	Almost primes in short intervals.
S T Lou	Zeros of the zeta function on the line $\sigma = \frac{1}{2}$.
Y Motohashi	Elementary proof of Vinogradov's zero-free region.
K Ramachandra	Some remarks on mean value theorems.
R J Cook	Sums of differences between consecutive primes.
D J Newman	Yet another proof of the prime number theorem.

(iii) Sieves

H Diamond	Iterative methods.
Y Motohashi	Latest form of Montgomery's sieve.
G Greaves	A weighted form of Brun's sieve.
S Graham	An upper bound weighted sieve.
J Friedlander	Selberg's formula for progressions.

(iv) General L-functions

D Goldfeld	Mean values of L-functions: applications to elliptic curves.
H Joris	Generalised Lerch series.
A Odlyzko	Unconditional bounds associated with the Čebotarev density theorem.
D McQuillan	Polynomial lattices and the Dedekind zeta function.

(v) Diophantine approximation

G Halasz	Roth's method in the theory of irregularities of distribution.
R Tijdeman	Some connections between diophantine approximation and analytic number theory.
C Viola	Applications of diophantine approximation to Fourier analysis.
J Pitman	Simultaneous pairs of diagonal inequalities.

(vi) Exponential and character sums

R C Vaughan	An elementary method in prime number theory.
G Kolesnik	Estimation of exponential sums in several variables.
J H Mueller	On the differences between consecutive primes.
E Bombieri	Exponential sums in finite fields.
D R Heath-Brown	Bounds for L-functions: a q-analogue of Van der Corput's method and a t-analogue of Burgess's method.

(vii) Miscellaneous analytic topics

P Shiu	A Brun-Titchmarsh theorem for multiplicative functions.
P T Bateman	Some applications of tauberian theorems of Delange.
P Erdős	On a conjecture of Newman-Erdős.
M N Huxley	The number of solutions of a congruence to a prime power modulus.

R Pleasants   The number of prime factors of binomial
                            coefficients.

E Wirsing   Characterising the logarithm.

I Katai   A characterisation of the logarithm of n.

A O L Atkin   Some amateur reflections on primality and
                            factorization.

K.-H. Indlekofer   Limiting distributions and mean values of
                            multiplicative functions.

W Schwarz   Remarks on Elliott's theorem on mean values
                            of multiplicative functions.

J.-M. Deshouillers   Distribution of Θ^n mod $\mathbb{F}_q[x]$ for some
                            rationals Θ in $\mathbb{F}_q\{x^{-1}\}$.

G Tenenbaum   Distribution of divisors.