PROGRAMME FOR THE L.M.S. SYMPOSIUM ON L-FUNCTIONS AND ARITHMETIC

	JULY 1	JULY 2	JULY 3	JULY 4	JULY 5		JULY 7	JULY 8	JULY 9	JULY 10
09.00–10.00	Rubin	Gross	Rubin	Gross	Rubin		Fröhlich	M. Taylor	Fröhlich	Chinburg
10.15–11.15	Arthur	Arthur	Gelbart	Gelbart	Arthur/Gelbart		Deninger	Scholl	Deninger/Scholl	Jannsen
11.45–12.45	Fontaine	Mazur	Fontaine	Greenberg	Fontaine	EXCURSION TO HADRIAN'S WALL	Greenberg	Coates	Ramakrishnan	Schmidt
13.15	LUNCH						LUNCH			
15.30–16.30	R. Taylor	Clozel	Wiles	Bushnell	R. Taylor*		Rogawski	Blasius	Ribet	Hida
16.30–17.30	Harder	Lichtenbaum	Swinnerton-Dyer	Clozel			Haran	Carayol	Schneider	To be announced

Cassou-Nogues

*This lecture will begin at 15.00, and will be followed by the garden party at St. Hild and St. Bede.

NOTES ON THE PROGRAMME:

Some lectures have been grouped together around a common theme. These include:

1. **Descent theory** (Gross, Rubin)—5 lectures.

2. **Automorphic L-functions** (Arthur, Gelbart)—5 lectures.

3. **p-adic cohomology, Tamagawa numbers, Iwasawa theory** (Fontaine, Greenberg, Coates)—6 lectures.

4. **l-adic representations attached to automorphic forms** (R. Taylor, Ribet, Wiles, Clozel, Blasius)—7 lectures.

5. **Beilinson conjectures** (Scholl, Deninger)—3 lectures.

6. **L-functions and Galois modules** (Fröhlich, M. Taylor, Chinburg)—4 lectures.

Of course, many of these groups of lectures will overlap both with each other, and with the individual lectures.

Titles of Lectures - *L*-functions in Arithmetic

J. Arthur - Automorphic L-functions (3)

D. Blasius - Galois representations for Hilbert modular forms via the principle of functorality

C. Bushnell - Local constants and GL_n of a local field

H. Carayol - Modulo l representations attached to automorphic forms

P. Cassou-Nogues - Trace forms and Artin root numbers

T. Chinburg - Additive and multiplicative Galois structure

L. Clozel - Galois representations for automorphic forms on GL_n (2)

J. Coates - Main conjectures of Iwasawa theory

C. Deninger - The Beilinson conjectures (2)

J-M. Fontaine - p-adic representations, analytic groups and Tamagawa numbers (3)

A. Frohlich - Galois modules (2)

S. Gelbart - Automorphic L-functions (2)

R. Greenberg - Iwasawa theory for p-adic representations (2)

B. Gross - Kolyvagin's work on modular elliptic curves (2)

S. Haran - Potentail theory and the Riemann zeta function

G. Harder - Modular construction of Galois modules

H. Hida - Katz p-adic L-functions and congruence power series

U. Jannsen - K-theory and L-adic cohomology

S. Lichtenbaum - Values of zeta functions of varieties over finite fields

B. Mazur - Square free sieves and ranks of Mordell-Weil groups

D. Ramakrishnan - Coherent cohomology and arithmetic automorphic forms

K. Rubet - Change of level in mod l Galois representations

J. Rogawski - User's guide to automorphic forms of U (3)

K. Rubin - Ideal class groups, main conjectures, and *CM* elliptic curves (3)

C-G. Schmidt - Modular symbols and p-adic Rankin-Selberg convolutions

P. Schneider - Cohomology of p-adically uniformized varieties

A. Scholl - The Beilinson conjectures (2)

J-P. Serre - Representations mod p and quaternionic groups

P. Swinnerton-Dyer - L-functions of diagonal quartic surfaces

M. Taylor - Explicit Galois modules

R. Taylor - l-adic representations attached to modular forms (2)

A. Wiles - l-adic representations for Hilbert modular forms