

**Schedule of Lectures for
The Conference on Number Theory and
FERMAT'S LAST THEOREM**

**August 9-18, 1995
Boston University**

All lectures will be held in Jacob Sleeper Hall, room 129 (balcony = room 229) in the College of General Studies at 871 Commonwealth Avenue.

Wednesday. August 9

9:00-10:00:	Glenn Stevens	<i>Overview of the proof of Fermat's Last Theorem.</i>
10:30-11:30:	Joe Silverman	<i>Geometry of elliptic curves.</i>
1:30 - 2:30:	Jaap Top* and David Rohrlich	<i>Modular curves.</i>
3:00 - 4:00:	Larry Washington	<i>Galois cohomology and Tate duality.</i>

Thursday. August 10

9:00-10:00:	Joe Silverman	<i>Arithmetic of elliptic curves.</i>
10:30-11:30:	Jaap Top* and David Rohrlich	<i>The Eichler-Shimura relations.</i>
1:30 - 2:30:	John Tate	<i>Finite group schemes.</i>
3:00 - 4:00:	Jerry Tunnell* and Steve Gelbart	<i>Modularity of $\bar{\rho}_{E,3}$.</i>

Friday. August 11

9:00-10:00:	Dick Gross	<i>Serre's Conjectures.</i>
10:30-11:30:	Barry Mazur	<i>Deformations of Galois representations: Introduction.</i>
1:30 - 2:30:	Hendrik Lenstra	<i>Explicit construction of deformation rings.</i>
3:00 - 4:00:	Jerry Tunnell* and Steve Gelbart	<i>On the Langlands Program.</i>

Saturday. August 12

9:00-10:00:	Jerry Tunnell* and Steve Gelbart	<i>Proof of certain cases of Artin's Conjecture.</i>
10:30-11:30:	Barry Mazur	<i>Deformations of Galois representations: Examples.</i>
1:30 - 2:30:	Dick Gross	<i>Ribet's Theorem.</i>
3:00 - 4:00:	Gerhart Frey	<i>Fermat's Last Theorem and elliptic curves.</i>

Sunday. August 13. Twenty Minute Talks.

(* = speaker)

Monday. August 14

9:00-10:00:	Jacques Tilouine	<i>Hecke algebras and the Gorenstein property.</i>
10:30-11:30:	René Schoof	<i>The Wiles-Lenstra criterion for complete intersections.</i>
1:30 - 2:30:	Barry Mazur	<i>The tangent space and the module of Kähler differentials of the universal deformation ring.</i>
3:00 - 4:00:	Ken Ribet	<i>p-adic modular deformations of mod p modular representations.</i>

Tuesday. August 15

9:00-10:00:	René Schoof	<i>The Wiles-Faltings criterion for complete intersections.</i>
10:30-11:30:	Brian Conrad	<i>The flat deformation functor.</i>
1:30 - 2:30:	Larry Washington	<i>Computations of Galois cohomology.</i>
3:00 - 4:00:	Gary Cornell	<i>Sociology, history and the first case of Fermat.</i>

Wednesday. August 16

9:00-10:00:	Ken Ribet	<i>Wiles' "Main Conjecture".</i>
10:30-11:30:	Ehud de Shalit	<i>Modularity of the universal deformation ring (the minimal case)</i>

_____ Afternoon: free _____

Thursday. August 17

9:00-10:00:	Alice Silverberg	<i>Explicit families of elliptic curves with prescribed mod n representations.</i>
10:30-11:30:	Ehud de Shalit	<i>Estimating Selmer groups.</i>
1:30 - 2:30:	Ken Ribet	<i>Non-minimal deformations (the "induction step").</i>
3:00 - 4:00:	Michael Rosen	<i>Remarks on the history of Fermat's Last Theorem: 1844 to 1984.</i>

Friday. August 18

9:00-10:00:	Fred Diamond	<i>An extension of Wiles' results.</i>
10:30-11:30:	Karl Rubin	<i>Modularity of mod 5 representations.</i>
1:30 - 2:30:	Henri Darmon	<i>Wiles' theorem on modular elliptic curves: Consequences and applications.</i>
3:00 - 4:00:	Andrew Wiles	<i>Modularity of semistable elliptic curves: Overview of the proof.</i>