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Kenneth A. Ribet, \ "A
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Why do prime numbers
make these spirals?~~

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Why was this visual

proof missed for 400

years? (Fermat's two

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~~(In Our Time)~~—

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paper it had only been
known that n -invariants were modular.

In 1985 Frey made the remark a

ble observation that this co

njectures should imply

Fermat's Last Theorem.

The precise mechanism

relating the two was

formulated by Serre as

the ϵ -conjecture and

this was then proved by

Ribet in the summer of

1986.

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Modular elliptic curves
and Fermat's Last
Theorem

In recognition of the historical significance of Fermat's Last Theorem, the volume concludes by looking both forward and backward in time, reflecting on the history of the problem, while placing Wiles' theorem into a more general Diophantine context suggesting future applications.

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Wiles's proof of
Fermat's Last Theorem is
a proof by British
mathematician Andrew
Wiles of a special case
of the modularity
theorem for elliptic
curves. Together with
Ribet's theorem, it
provides a proof for
Fermat's Last Theorem.
Both Fermat's Last
Theorem and the
modularity theorem were
almost universally
considered inaccessible

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to proof by contemporaneous mathematicians, meaning that they were believed to be impossible to prove using current knowledge.

Wiles's proof of
Fermat's Last Theorem -
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It introduces and explains the many ideas and techniques used by Wiles, and to explain how his result can be combined with Ribets theorem and ideas of

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Frey and Serre to prove Fermats Last Theorem. The book begins with an overview of the complete proof, followed by several introductory chapters surveying the basic theory of elliptic curves, modular functions and curves, Galois cohomology, and ...

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Reviewed in the United States on October 27, 2001 The successful proof of Fermat's Last Theorem by Andrew Wiles was probably the most widely publicized mathematical result of the 20th century. And once again, among their numerous other applications, elliptic curves are employed in the proof.

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Fermat's Last Theorem
states that the equation
 $x^n + y^n = z^n$, $xyz \neq 0$ has
no integer solutions
when n is greater than or
equal to 3. Around 1630,
Pierre de Fermat claimed
that he had found a
"truly wonderful" proof
of this theorem, but
that the margin of his
copy of Diophantus'
Arithmetica was too
small to contain it:

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The modularity theorem
(formerly called the

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Taniyama–Shimura conjecture, Taniyama-Weil conjecture or modularity conjecture for elliptic curves) states that elliptic curves over the field of rational numbers are related to modular forms. Andrew Wiles proved the modularity theorem for semistable elliptic curves, which was enough to imply Fermat's Last Theorem. Later, a series of papers by Wiles's former students Brian Conrad, Fred Diamond and Richard

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Taylor, culminating in a
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Wiles's proof of Fermat's Last Theorem is a proof by British mathematician Andrew Wiles of a special case of the modularity theorem for elliptic curves. Together with Ribet's theorem, it provides a proof for Fermat's Last Theorem. Both Fermat's Last Theorem and the modularity theorem were almost universally considered inaccessible to proof by

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contemporaneous mathematicians, meaning that they were believed to be impossible to prove using current knowledge.

Wiles's proof of
Fermat's Last Theorem -
Wikipedia

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The book begins with an overview of the complete proof, followed by several introductory chapters surveying the basic theory of elliptic curves, modular functions and curves, Galois cohomology, and

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