IU^B International University Bremen

Mathematics Colloquium at Jacobs University Bremen

Samir Siksek

(University of Warwick)

will speak on

Diophantine Equations after Fermat's Last Theorem

Date: **Monday, April 23, 2007**
Time: **17:15**
Place: **Lecture Hall Research II, Jacobs University**

Abstract:
Wiles' proof of Fermat's Last Theorem is one of the happiest memories of the 20th century. Unfortunately, Wiles' proof does not readily extend in a way that allows us to solve many other classical Diophantine problems. In this talk, based on joint work with Bugeaud and Mignotte, we explain how the proof of Fermat's Last Theorem can be combined with older analytic techniques due to Baker, in a way that solves several classical Diophantine problems. For example, we show that the only perfect powers in the Fibonacci sequences are 0, 1, 8, 144.

Colloquium Tea at ca. 16:45 in the Tea Room of Research II, close to the lecture hall. Everybody is welcome!

M. Stoll