



Einladung zum  
**Mathematischen Kolloquium**

Am Dienstag, 11. November 2008

spricht

**Prof. Dr. Bharath Sriraman**

University of Montana, USA

über

**Non-European traditions in mathematics and their implications for  
the teaching and learning of proof**

The axiomatic-deductive approach to the teaching and learning of proof can be traced back to the Greeks, in particular the style of the elements. Numerous research studies in the domain of proof have shown that students experience difficulties in writing proofs in the logico-deductive style, partly because the process of the "doing" the proof tends to be quite different from the final logical presentation. In this talk, non-European traditions in proof, particularly the Chinese and Indian traditions of mathematics are examined, which emphasize a more visual and or an algorithmic approach to demonstrating mathematical truth, closer to the style of working mathematicians as argued by maverick philosophers of mathematics such as Reuben Hersh and Paul Ernest. The implications of these traditions for the teaching and learning of proof will be discussed.

**Der Vortrag findet statt um 17 Uhr c.t. im Raum 7260, 7. Ebene des Mehrzweckhochhauses (MZH) der Universität Bremen, Bibliothekstraße.  
Zuvor gibt es Kaffee/Tee und Gebäck im Raum 7140.**

**Alle Interessierten sind herzlich eingeladen.  
Marc Keßböhrer als Kolloquiumsbeauftragter.**