



FAKULTÄT FÜR TECHNISCHE WISSENSCHAFTEN
UNIVERSITÄT INNSBRUCK

INSTITUT FÜR GRUNDLAGEN DER
TECHNISCHEN WISSENSCHAFTEN

ARBEITSBEREICH FÜR GEOMETRIE UND CAD

Technikerstrasse 13
A-6020 Innsbruck
Telefon: +43 512 507 61201

E-Mail: Manfred.Husty@uibk.ac.at
<http://geometrie.uibk.ac.at>
Fax: +43 512 507 61299

Der Arbeitsbereich für Geometrie und CAD
lädt zu folgendem Vortrag ein:

Prof. **N. J. WILDBERGER**

The University of New South Wales

Rational trigonometry and a simplified path to hyperbolic geometry

Rational trigonometry is a new, completely algebraic approach to trigonometry—so it avoids the transcendental circular functions such as \cos , \sin and \tan . Instead the rational expressions length^2 and \sin^2 (angle) are used: these are called quadrance and spread. Many aspects of geometry can now be seen in a new and more general light, since now metrical geometry applies over general fields and with other bilinear forms, for example relativistic ones.

A nice consequence is a much simpler and more elementary approach to hyperbolic geometry, which turns out to have many new and intricate features and is a rich ground for investigation, even by undergraduates. This talk will have lots of pictures.

Zeit: **Donnerstag, den 23. Mai 2013 um 17.00 Uhr**

Ort: **Technikerstrasse 13, HSB 6**

Manfred Husty

Gäste sind herzlich willkommen!