ERASMUS PROGRAMME

OF THE

EUROPEAN UNION

Heinz Hopf
1894 - 1971

Lecture Course
„Hopf-Galois Theory"

Professor Tomasz Brzezinski
(Swansea University, UK)

in Göttingen
March 29 - April 1, 2010

The lectures start with a brief guide through the classical Galois theory, with special emphasis put on:

(a) formulation of Galois extenions of fields in the way that lends itself naturally to non-commutative generalisation;
(b) geometric meaning of Galois extensions.

In the second part, the theory of Galois extensions of non-commutative rings (algebras) known as Hopf-Galois extensions is presented leading to the interpretation of such extensions as principal fibre bundles in noncommutative geometry.

Monday, March 29	10:00 - 12:00	14:00 - 16:00
Tuesday, March 30	10:00 - 12:00	14:00 - 16:00
Wednesday, March 31	10:00 - 12:00	14:00 - 16:00
Thursday, April 1	10:00 - 12:00	14:00 - 16:00
Sitzungszimmer Mathematisches Institut, Bunsenstr. 3-5		

Évariste Galois
1811 - 1832

Fakultät für Mathematik und Informatik

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www.math.uni-goettingen.de/aktuelles/erasmus.html