



Fakultät für Mathematik

Workgroup Nonlinear Partial Differential Equations

Secretariat

[Allianz-Gebäude \(05.20\)](#)

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Note: Change of phone numbers at KIT on 31.12.2010

The number **608 - abcd** changes to **608 - 4 - abcd**.

Welcome to my homepage

At a summer school in [Bydgoszcz](#), September 4-18, 2011, [Professor Roman Ger](#) talked about convexity in the following way:

"Convexity is a beautiful lady -- and I am a silent admirer of her".

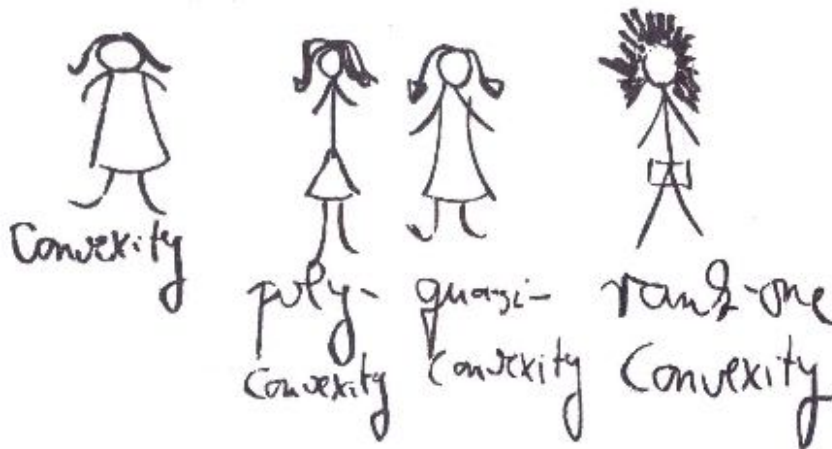
In full agreement with his statement I drew at the beginning of my lectures on "Calculus of Variations and Applications to Elasticity" the following picture on the blackboard and said

"Convexity is truly a beautiful lady -- but do you also know her beautiful sisters?"

The picture found its way into the journal [Macierzator 40](#) edited by the mathematics students at the Silesian University in [Katowice](#). I am very grateful to them.

[MACIERZATOR40]

Gazetka redagowana przez Koło Naukowe Matematyków Uniwersytetu Śląskiego



Semester	Titel	Typ
Winter Semester 2011/12	Nichtlineare Randwertprobleme	
	Seminar (Differentialgleichungen)	Seminar
	Kollegseminar des Graduiertenkollegs	Seminar
Summer Semester 2011	Rand-und Eigenwertprobleme	
	Numerische Methoden (Elektrotechnik, Meteorologie, Geodäsie, Geoinformatik)	
	Seminar (Differentialgleichungen der Mathematischen Physik)	Seminar
	Kollegseminar des Graduiertenkollegs	Seminar
Winter Semester 2010/11	Partielle Differentialgleichungen	
	Nonlinear Schrödinger equations - stationary aspects	
	Seminar (Randwertprobleme/boundary value problems)	Seminar
	Kollegseminar des Graduiertenkollegs	Seminar
Summer Semester 2010	Boundary and Eigenvalue Problems	
	Numerische Mathematik für die Fachrichtung Elektroingenieurwesen	
	Seminar (Calculus of Variations)	Seminar
Winter Semester 2009/10	Analysis III	
	Variational methods and applications to PDEs	
	Proseminar(Ungleichungen)	Proseminar
Summer Semester 2009	Analysis II	
	Sobolev Spaces	

Recent Talks

June 28, 2010, Research Training Group Seminar [Surface Gap Solitons](#)

Analysis Lecture Notes (all in german, no proofs, some typos)

[Analysis I Exercises](#)

[Analysis II Exercises](#)

[Analysis III Exercises](#)

Publications

[Publications](#)

Research

- All colleagues from the research group "Partial Differential Equations" organize three times per semester the [Karlsruhe PDE-Seminar](#)

The programm for the wintersemester 2011/12:

Maria Specovius-Neugebauer (Kassel) Wie wachsen Risse?
Nov. 3rd, 2011 5:30 p.m., Neuer Hörsaal, Gebäude 20.40

Nicolas Burq (Paris)
Dec, 1st, 2011 5:30 p.m., Neuer Hörsaal, Gebäude 20.40

Günter Leugering (Erlangen)
February 2nd, 2012 5:30 p.m., Neuer Hörsaal, Gebäude 20.40

- In cooperation with Thomas Bartsch (Giessen), Bernd Kawohl (Cologne), Michael Plum (Karlsruhe), Guido Sweers (Cologne) and Tobias Weth (Frankfurt) we are organizing once every semester:

Nonlinear PDE Days Frankfurt - Giessen - Karlsruhe - Köln

The next PDE Days will take place in Frankfurt

Previous PDE Days

October 4-5, 2011 at the University of Cologne

[Nonlinear PDE days in Cologne](#)

June 16-17, 2011 at the University of Giessen

Topic: [Concentration phenomena in nonlinear PDE's](#)

January 20-21, 2011 at KIT

Topic: [Computational aspects and computer-assisted proofs in nonlinear PDEs](#)

July 1-2, 2010 at the University of Frankfurt

Topic: [Analytical and computational methods in geometric optimization problems](#)

January 21-22, 2010 at the University of Giessen

Topic: [Liouville theorems and applications](#)

June 25-26, 2009 in Karlsruhe

Topic: [Nonlinear Schrödinger Equations](#)

Most of my research is in the area of:



Other activities

[Austauschprogramm Virginia Tech \(Blacksburg, USA\) - KIT](#)

[Sommerschule Bydgoszcz, Polen, 4.-18.9.2011](#)

Running events [runs](#)

KIT - Universität des Landes Baden-Württemberg und nationales Forschungszentrum in der Helmholtz-Gemeinschaft