



## Vorträge

Mittwoch, 8. Jänner 2014, ab 16:15 Uhr, Sky Lounge (12. Stock),  
Oskar-Morgenstern-Platz 1, 1090 Wien

[Mathematisches Kolloquium – Antrittsvorlesung](#)

Univ. Prof. Ilaria Perugia (Fakultät für Mathematik): “Finite Elements: Classics and Trends”

*Abstract.* A wide variety of natural, technological, and social phenomena are mathematically described in terms of partial differential equations. These are often too complicated to be solved analytically, and this is where numerical methods come into play. Finite elements are a powerful, flexible, and robust class of methods for the numerical approximation of solutions to partial differential equations. In their standard version, they are based on piecewise polynomial functions on a partition of the domain of interest. Continuity requirements are possibly dictated by the regularity of the exact solutions. Over the last years, new methods which break the constraints of the classic finite element paradigm have been developed in order to better reproduce physical properties of the exact solutions, to enhance stability, and to improve accuracy vs. computational cost. Some of these non standard finite element methods will be the focus of this lecture.

15:45 Uhr – 16:15 Uhr K & K

16:15 Uhr – Vortrag, anschließend kleines Buffet

Dekan Univ.-Prof. Dr. Harald Rindler

Montag, 6. Jänner 2014, von 14:00 Uhr bis 15:00 Uhr,

Seminarraum Biomathematik, 9. Stock, Oskar-Morgenstern-Platz 1, 1090 Wien

Najmuddin Fakhruddin (TATA Inst.): The dynamics of generic endomorphisms of projective space

Organized: L. Katzarkov

Dienstag, 7. Jänner 2014, von 15:00 Uhr bis 16:30 Uhr,

Seminarraum Biomathematik, 9. Stock, Oskar-Morgenstern-Platz 1, 1090 Wien

[Arbeitsgemeinschaft Biomathematik](#)

Stefan Müller: “Generalized chemical reaction networks”

Dienstag, 7. Jänner 2014, von 16:00 Uhr bis 17:30 Uhr, Seminarraum 11, 2. Stock

Oskar-Morgenstern-Platz 1, 1090 Wien

[Arbeitsgemeinschaft Algebraische Geometrie](#)

Valerie Roitner: „The polynomial method and some of its applications”

Organized: H. Hauser

Mittwoch, 8. Jänner 2014, ab 11:15 Uhr, Seminarraum 12, 2. Stock,

Oskar-Morgenstern-Platz 1, 1090 Wien

[NuHag Seminar](#)

Markus Faulhuber: „TBA“

<http://www.univie.ac.at/nuhag-php/home/seminar.php>



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**Fakultät für Mathematik**

Donnerstag, 9. Jänner 2014, von 17:00 Uhr bis 18:30 Uhr, Seminarraum 11, 2 Stock,  
Oskar-Morgenstern-Platz 1, 1090 Wien

**Vortrag im Rahmen des Seminars Finanzmathematik**

Sebastian Andres: „Invariance Principle for the Random Conductance Model in a degenerate ergodic environment”

[http://www.mat.univie.ac.at/~finance\\_hp/seminarWS13.html](http://www.mat.univie.ac.at/~finance_hp/seminarWS13.html)

Donnerstag, 9. Jänner 2014, von 16:00 Uhr bis 18:00 Uhr, Josephinum,  
SR (Zi. O2.101), Währingerstr. 25, 1090 Wien

**KGRC Research Seminar**

Schuster Peter (University of Leeds, UK) “Folding Up (Disjunctions)”

[http://www.logic.univie.ac.at/Current\\_talk.html](http://www.logic.univie.ac.at/Current_talk.html)