

university of oregon math department

University of Oregon Math Department: A Hub for Mathematical Excellence and Innovation

university of oregon math department stands out as a vibrant community dedicated to fostering mathematical understanding, research, and education. Nestled within the picturesque campus of the University of Oregon, this department is not only a place where numbers and theories thrive but also a hub where students and faculty collaborate to explore the profound beauty and applications of mathematics. Whether you're an aspiring mathematician, a curious student, or someone interested in the latest developments in mathematical sciences, the University of Oregon math department offers a wealth of opportunities and resources.

Academic Programs and Degrees

One of the most compelling reasons students choose the University of Oregon math department is the diversity and rigor of its academic programs. The department offers a variety of degree options tailored to different interests and career paths, ranging from pure mathematics to applied mathematics and interdisciplinary studies.

Undergraduate Studies

For undergraduates, the math department provides a comprehensive curriculum that balances theory and practical application. Students can pursue a Bachelor of Science or Bachelor of Arts in Mathematics, with coursework covering areas such as calculus, linear algebra, differential equations, abstract algebra, and real analysis. This solid foundation prepares students for careers in education, finance, data analysis, and beyond.

The department encourages hands-on learning through research projects and internships, which are invaluable for gaining real-world experience. The supportive faculty members often work closely with undergraduates to guide their academic journey and help them refine critical thinking and problem-solving skills.

Graduate Programs

Graduate students at the University of Oregon math department benefit from a dynamic environment that promotes advanced study and original research. The Master's and Ph.D. programs are designed to develop expertise in fields like algebraic geometry, mathematical logic, numerical analysis, and topology.

Students have access to cutting-edge resources, including computational labs and collaborative research centers. The department's commitment to fostering innovation is evident in its encouragement of interdisciplinary projects, linking mathematics with computer science, physics, biology, and economics.

Faculty Expertise and Research Opportunities

The strength of the University of Oregon math department largely rests on its accomplished and approachable faculty. Professors are leaders in their specialties and contribute to a rich academic atmosphere by engaging in groundbreaking research and publishing in prestigious journals.

Diverse Research Areas

Faculty research spans a broad spectrum of mathematical disciplines, including:

- Algebra and Number Theory
- Analysis and Differential Equations
- Geometry and Topology
- Mathematical Logic and Foundations
- Applied Mathematics and Computational Modeling

This diversity ensures that students can find mentors aligned with their interests and participate in projects that push the boundaries of knowledge.

Collaborative and Interdisciplinary Work

One of the hallmarks of the University of Oregon math department is its emphasis on collaboration. Faculty and students often work across disciplines, joining forces with departments such as computer science, engineering, and environmental science. This cross-pollination of ideas enriches the research experience and opens up new vistas for applying mathematical theories to solve real-world problems.

Student Resources and Community Engagement

Beyond academics and research, the University of Oregon math department fosters a supportive and engaging community for its students. This environment is crucial for motivation and professional growth.

Mathematics Clubs and Organizations

Students have the opportunity to join math-focused organizations like the Math Club, which organizes problem-solving sessions, guest lectures, and social events. These venues provide platforms for networking, peer learning, and developing leadership skills. Participating in competitions such as the Putnam Mathematical Competition also helps students challenge themselves and

gain recognition.

Tutoring and Academic Support

Recognizing that mathematics can be challenging, the department offers extensive tutoring services and study groups. Experienced tutors help students grasp difficult concepts, prepare for exams, and build confidence. These resources make a significant difference in student retention and success.

Outreach and Community Involvement

The University of Oregon math department actively engages with the local community by organizing workshops, math camps, and outreach programs for K-12 students. These initiatives aim to spark interest in mathematics among younger learners and demonstrate the subject's relevance beyond the classroom.

Facilities and Technology

Modern facilities and technological resources play a crucial role in supporting the academic and research activities of the University of Oregon math department.

Computational Labs

Equipped with powerful computers and specialized software, the department's computational labs enable students and researchers to perform complex simulations, data analysis, and numerical modeling. These resources are particularly important for applied mathematics and interdisciplinary projects.

Library and Academic Resources

Students and faculty have access to an extensive collection of mathematical texts, journals, and digital databases through the university's libraries. These resources are essential for staying updated with current research trends and literature.

Career Prospects and Alumni Success

Graduating from the University of Oregon math department opens doors to a wide array of career paths. The department's strong emphasis on both theoretical knowledge and practical skills equips students to excel in various industries.

Career Paths for Math Graduates

Alumni find rewarding careers in fields such as:

- Data Science and Analytics
- Financial Modeling and Actuarial Science
- Software Development and Computer Science
- Academic Research and Teaching
- Operations Research and Consulting

The department's career services and networking events help students connect with potential employers and internship opportunities.

Notable Alumni and Their Contributions

The University of Oregon math department boasts a network of successful alumni who have made significant contributions in academia, industry, and public service. Their achievements serve as inspiration for current students and reflect the quality of education and mentorship provided by the department.

Tips for Prospective Students Interested in the University of Oregon Math Department

If you're considering joining the University of Oregon math department, here are some insights to help you make the most of your experience:

1. **Engage Early:** Start by building a strong foundation in calculus and linear algebra, as these subjects are pivotal in advanced coursework.
2. **Seek Research Opportunities:** Don't hesitate to approach faculty members about participating in research projects, even as an undergraduate.
3. **Utilize Support Services:** Make use of tutoring and study groups to keep up with challenging material.
4. **Connect with Peers:** Join math clubs and attend department events to build a network and gain different perspectives.
5. **Explore Interdisciplinary Options:** Consider how mathematics intersects with other fields that interest you, such as computer science or biology.

Being proactive and engaged will enhance your learning and open doors to

exciting academic and professional opportunities.

The University of Oregon math department is more than just a place to study numbers and formulas; it's a thriving community that nurtures curiosity, creativity, and critical thinking. Whether you're drawn to abstract theoretical problems or practical applications of mathematics, this department provides the tools, guidance, and environment to help you succeed and make meaningful contributions to the field.

Frequently Asked Questions

What degree programs does the University of Oregon Math Department offer?

The University of Oregon Math Department offers undergraduate degrees including a Bachelor of Science (BS) and Bachelor of Arts (BA) in Mathematics, as well as graduate programs such as a Master's and PhD in Mathematics.

Are there opportunities for undergraduate research in the University of Oregon Math Department?

Yes, the University of Oregon Math Department provides various opportunities for undergraduate research through summer programs, independent study, and collaborations with faculty members.

What are the areas of research specialization in the University of Oregon Math Department?

The department specializes in areas including algebra, analysis, applied mathematics, geometry and topology, mathematical biology, and number theory.

Does the University of Oregon Math Department offer any online courses?

Yes, the University of Oregon Math Department offers select online and hybrid courses to accommodate remote learners, particularly in foundational and applied mathematics subjects.

How can students get involved in math-related extracurricular activities at the University of Oregon?

Students can join math clubs, participate in math competitions, attend seminars hosted by the department, and engage with the Pi Mu Epsilon mathematics honor society.

What career support does the University of Oregon Math Department provide to its students?

The department offers career advising, internship placement assistance, workshops on resume building, and networking events with alumni working in mathematics-related fields.

Who are some notable faculty members in the University of Oregon Math Department?

Notable faculty include professors specializing in applied mathematics, mathematical biology, and pure mathematics, many of whom have received national recognition for their research and teaching.

What resources are available for math students at the University of Oregon?

Students have access to tutoring centers, computer labs with mathematical software, a dedicated math library section, and faculty office hours for additional support.

How does the University of Oregon Math Department support diversity and inclusion?

The department actively promotes diversity through scholarships for underrepresented groups, inclusive curricula, mentorship programs, and participation in university-wide diversity initiatives.

What are the admission requirements for the graduate math programs at the University of Oregon?

Applicants typically need a bachelor's degree in mathematics or a related field, GRE scores, letters of recommendation, a statement of purpose, and transcripts demonstrating strong academic performance in mathematics courses.

Additional Resources

University of Oregon Math Department: A Comprehensive Overview

university of oregon math department stands as a pivotal academic unit within the University of Oregon, renowned for its commitment to both rigorous mathematical education and groundbreaking research. As higher education institutions increasingly emphasize STEM disciplines, the university's math department plays a critical role in fostering analytical skills, supporting interdisciplinary studies, and contributing to advancements in mathematical sciences. This article delves into the structure, academic offerings, research focus, and overall standing of the University of Oregon math department, providing an analytical perspective for prospective students, educators, and academic researchers.

Academic Programs and Curriculum Structure

At the core of the University of Oregon math department is a robust curriculum designed to accommodate a diverse student body, ranging from those pursuing pure mathematics to applied mathematical sciences. The department offers undergraduate degrees including a Bachelor of Science (BS) and Bachelor of Arts (BA) in Mathematics. These programs emphasize foundational courses such as calculus, linear algebra, and differential equations, progressing toward advanced topics in abstract algebra, real analysis, and topology.

For graduate students, the department provides Master's and PhD programs that highlight both theoretical and applied mathematics. Graduate education is tailored to foster independent research, preparing students for academic careers or industry roles that require deep quantitative expertise. The presence of specialized tracks—such as applied mathematics, statistics, and computational mathematics—reflects the department's adaptability to evolving academic and professional demands.

The curriculum's flexibility is a notable feature. Students can combine mathematics with other disciplines, including computer science, physics, and economics, which underscores the department's interdisciplinary approach. This integration is essential in an era where mathematical modeling and data analysis underpin many scientific and technological advancements.

Faculty Expertise and Research Contributions

The University of Oregon math department boasts a faculty roster characterized by diverse research interests and academic excellence. Professors are actively engaged in areas spanning pure mathematics fields like algebraic geometry and number theory, to applied fields such as mathematical biology, numerical analysis, and mathematical physics.

Faculty members frequently publish in high-impact journals and secure research funding from prestigious agencies, including the National Science Foundation (NSF). Their research not only advances mathematical theory but also addresses practical problems in science and engineering. This dual focus enhances the department's reputation as a hub for innovative mathematical inquiry.

Moreover, the department encourages collaborative research projects that involve graduate students and undergraduates, fostering an environment where emerging scholars gain hands-on experience. This mentorship model is crucial for cultivating the next generation of mathematicians and researchers equipped to tackle complex problems.

Facilities and Resources

The University of Oregon math department is equipped with modern facilities that support both teaching and research activities. Classrooms are supplemented with technological tools to facilitate interactive learning, while computer labs provide access to specialized mathematical software such as MATLAB, Mathematica, and R.

The department also maintains a dedicated seminar room hosting regular colloquia, workshops, and guest lectures. These events are vital for exposing students and faculty to cutting-edge developments in mathematics and related fields. Additionally, access to the university's extensive library resources, including electronic databases and mathematical archives, further enriches the academic experience.

One distinctive resource is the department's involvement with the Oregon Center for Mathematics and Science, which promotes outreach and collaboration with local schools and educational organizations. Through this initiative, the math department extends its impact beyond campus, contributing to community engagement and STEM education at the K-12 level.

Student Support and Career Pathways

Student support services within the University of Oregon math department are designed to enhance academic success and professional development. Advising programs help students navigate course selections and research opportunities, while tutoring centers provide assistance in challenging mathematical concepts.

Career services tailored to math majors highlight a range of pathways, including academia, data science, actuarial science, finance, and technology sectors. The department maintains active connections with industry partners and alumni networks, facilitating internships and job placements.

Furthermore, participation in undergraduate research programs and mathematical competitions offers students platforms to apply their knowledge and gain recognition. Such experiences are instrumental in preparing graduates for competitive job markets and advanced academic pursuits.

Comparative Perspective and Departmental Challenges

When compared to peer institutions in the Pacific Northwest, the University of Oregon math department holds a competitive position, particularly due to its balance between teaching excellence and research output. While it may not match the scale or global ranking of larger research universities, its emphasis on personalized education and interdisciplinary collaboration makes it an attractive choice for many students.

However, like many academic departments nationwide, it faces challenges such as fluctuating funding, the need for continual curriculum updates, and expanding diversity and inclusion efforts. Addressing these issues is critical to sustaining growth and maintaining relevance in a rapidly changing academic landscape.

Strengths and Areas for Improvement

- **Strengths:** Dedicated faculty, strong undergraduate mentorship, interdisciplinary opportunities, and active community engagement.

- **Areas for Improvement:** Increasing graduate program visibility, expanding research facilities, and enhancing diversity among faculty and students.

These factors collectively influence the department's trajectory and its ability to attract high-caliber students and faculty.

Conclusion

The University of Oregon math department exemplifies a well-rounded academic unit committed to fostering mathematical knowledge through comprehensive education, active research, and community involvement. Its strategic focus on interdisciplinary collaboration and student-centered learning positions it well for future developments. As mathematics continues to underpin advancements across scientific and technological domains, the department's role at the University of Oregon remains integral to both local and broader academic communities.

University Of Oregon Math Department

university of oregon math department: *Resistance Forms, Quasisymmetric Maps and Heat Kernel Estimates* Jun Kigami, 2012-02-22 Assume that there is some analytic structure, a differential equation or a stochastic process for example, on a metric space. To describe asymptotic behaviors of analytic objects, the original metric of the space may not be the best one. Every now and then one can construct a better metric which is somehow "intrinsic" with respect to the analytic structure and under which asymptotic behaviors of the analytic objects have nice expressions. The problem is when and how one can find such a metric. In this paper, the author considers the above problem in the case of stochastic processes associated with Dirichlet forms derived from resistance forms. The author's main concerns are the following two problems: (I) When and how to find a metric which is suitable for describing asymptotic behaviors of the heat kernels associated with such processes. (II) What kind of requirement for jumps of a process is necessary to ensure good asymptotic behaviors of the heat kernels associated with such processes.

university of oregon math department: Towards a Modulo p Langlands Correspondence for GL_2 Christophe Breuil, Vytas Paskunas, 2012-02-22 The authors construct new families of smooth admissible $\overline{\mathbb{F}}_p$ -representations of $\mathrm{GL}_2(F)$, where F is a finite extension of $\mathbb{Q}_p$. When F is unramified, these representations have the $\mathrm{GL}_2(\mathcal{O}_F)$ -socle predicted by the recent generalizations of Serre's modularity conjecture. The authors' motivation is a hypothetical mod p Langlands correspondence.

university of oregon math department: The Poset of k -Shapes and Branching Rules for k -Schur Functions Thomas Lam, Luc Lapointe, Jennifer Morse, Mark Shimozono, 2013-04-22 The authors give a combinatorial expansion of a Schubert homology class in the affine Grassmannian $\mathrm{Gr}_{\mathrm{SL}_k}$ into Schubert homology classes in $\mathrm{Gr}_{\mathrm{SL}_{k+1}}$. This is achieved by studying the combinatorics of a new class of partitions called k -shapes, which interpolates between k -cores and $k+1$ -cores. The authors define a symmetric function for each k -shape, and show that they expand positively in terms of dual k -Schur functions. They obtain an explicit combinatorial description of the expansion of an ungraded k -Schur function into $k+1$ -Schur functions. As a corollary, they give a

formula for the Schur expansion of an ungraded k -Schur function.

university of oregon math department: *Semiclassical Standing Waves with Clustering Peaks for Nonlinear Schrodinger Equations* Jaeyoung Byeon, Kazunaga Tanaka, 2014-04-07 The authors study the following singularly perturbed problem: in . Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of . A local variational and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities .

university of oregon math department: **Self-Affine Scaling Sets in $\mathbb{R}^2$** Xiaoye Fu, Jean-Pierre Gabardo, 2014-12-20 There exist results on the connection between the theory of wavelets and the theory of integral self-affine tiles and in particular, on the construction of wavelet bases using integral self-affine tiles. However, there are many non-integral self-affine tiles which can also yield wavelet basis. In this work, the author gives a complete characterization of all one and two dimensional -dilation scaling sets such that is a self-affine tile satisfying for some R , where is a integral expansive matrix with and .

university of oregon math department: *Potential Wadge Classes* Dominique Lecomte, 2013-01-25 Let Γ be a Borel class, or a Wadge class of Borel sets, and $2^{\leq \aleph_1}$ be a cardinal. A Borel subset B of $\mathbb{R}^d$ is potentially in Γ if there is a finer Polish topology on $\mathbb{R}^d$ such that B is in Γ when $\mathbb{R}^d$ is equipped with the new product topology. The author provides a way to recognize the sets potentially in Γ and applies this to the classes of graphs (oriented or not), quasi-orders and partial orders.

university of oregon math department: **On Systems of Equations Over Free Partially Commutative Groups** Montserrat Casals-Ruiz, Ilya Kazachkov, 2011 Volume 212, number 999 (end of volume).

university of oregon math department: On Central Critical Values of the Degree Four L -Functions for $GSp(4)$: The Fundamental Lemma. III Masaaki Furusawa, Kimball Martin, Joseph A. Shalika, 2013-08-23 Some time ago, the first and third authors proposed two relative trace formulas to prove generalizations of Böcherer's conjecture on the central critical values of the degree four -functions for , and proved the relevant fundamental lemmas. Recently, the first and second authors proposed an alternative third relative trace formula to approach the same problem and proved the relevant fundamental lemma. In this paper the authors extend the latter fundamental lemma and the first of the former fundamental lemmas to the full Hecke algebra. The fundamental lemma is an equality of two local relative orbital integrals. In order to show that they are equal, the authors compute them explicitly for certain bases of the Hecke algebra and deduce the matching.

university of oregon math department: Sheaves on Graphs, Their Homological Invariants, and a Proof of the Hanna Neumann Conjecture Joel Friedman, 2014-12-20 In this paper the author establishes some foundations regarding sheaves of vector spaces on graphs and their invariants, such as homology groups and their limits. He then uses these ideas to prove the Hanna Neumann Conjecture of the 1950s; in fact, he proves a strengthened form of the conjecture.

university of oregon math department: Cohomology for Quantum Groups via the Geometry of the Nullcone Christopher P. Bendel, Daniel K. Nakano, Brian J. Parshal, Cornelius Pillen, 2014-04-07 In general, little is known about the representation theory of quantum groups (resp., algebraic groups) when l (resp., p) is smaller than the Coxeter number h of the underlying root system. For example, Lusztig's conjecture concerning the characters of the rational irreducible G -modules stipulates that $p=h$. The main result in this paper provides a surprisingly uniform answer for the cohomology algebra $H^*(u^+, C)$ of the small quantum group.

university of oregon math department: *Analysis of the Hodge Laplacian on the Heisenberg Group* Detlef Muller, Marco M. Peloso, Fulvio Ricci, 2014-12-20 The authors consider the Hodge Laplacian Δ on the Heisenberg group H_n , endowed with a left-invariant and $U(n)$ -invariant Riemannian metric. For $0 \leq k \leq 2n+1$, let Δ_k denote the Hodge Laplacian restricted to k -forms. In this paper they address three main, related questions: (1) whether the L^2 and

L^p -Hodge decompositions, $1 < p < \infty$, hold on H_n ; (2) whether the Riesz transforms $\Delta_k^{-\frac{1}{2}}$ are L^p -bounded, for $1 < p < \infty$; (3) how to prove a sharp Mihlin-Hörmander multiplier theorem for Δ_k , $0 \leq k \leq 2n+1$.

university of oregon math department: Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model Raphaël Cerf, 2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen's model, which incorporates stochastic effects. The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality ℓ . The mutation probability per locus is μ . He deals only with the sharp peak landscape: the replication rate is λ_0 for the master sequence and λ for the other sequences. He studies the equilibrium distribution of the process in the regime where

university of oregon math department: Hypocoercivity Cédric Villani, 2009-10-08 This memoir attempts at a systematic study of convergence to stationary state for certain classes of degenerate diffusive equations, taking the general form $\frac{\partial f}{\partial t} + Lf = 0$. The question is whether and how one can overcome the degeneracy by exploiting commutators.

university of oregon math department: Limit Operators, Collective Compactness, and the Spectral Theory of Infinite Matrices Simon N. Chandler-Wilde, Marko Lindner, 2011 In the first half of this memoir the authors explore the interrelationships between the abstract theory of limit operators (see e.g. the recent monographs of Rabinovich, Roch and Silbermann (2004) and Lindner (2006)) and the concepts and results of the generalised collectively compact operator theory introduced by Chandler-Wilde and Zhang (2002). They build up to results obtained by applying this generalised collectively compact operator theory to the set of limit operators of an operator A (its operator spectrum). In the second half of this memoir the authors study bounded linear operators on the generalised sequence space $\ell^p(\mathbb{N}, U)$, where $p \in [1, \infty]$ and U is some complex Banach space. They make what seems to be a more complete study than hitherto of the connections between Fredholmness, invertibility, invertibility at infinity, and injectivity of the set of limit operators, with some emphasis on the case when the operator A is a locally compact perturbation of the identity. Especially, they obtain stronger results than previously known for the subtle limiting cases of $p=1$ and $p=\infty$.

university of oregon math department: Centres of Centralizers of Unipotent Elements in Simple Algebraic Groups Ross Lawther, Donna M. Testerman, 2011 Let G be a simple algebraic group defined over an algebraically closed field k whose characteristic is either 0 or a good prime for G , and let $u \in G$ be unipotent. The authors study the centralizer $C_G(u)$, especially its centre $Z(C_G(u))$. They calculate the Lie algebra of $Z(C_G(u))$, in particular determining its dimension; they prove a succession of theorems of increasing generality, the last of which provides a formula for $\dim Z(C_G(u))$ in terms of the labelled diagram associated to the conjugacy class containing u .

university of oregon math department: Towards Non-Abelian P-adic Hodge Theory in the Good Reduction Case Martin C. Olsson, 2011-02-07 The author develops a non-abelian version of p -adic Hodge Theory for varieties (possibly open with "nice compactification") with good reduction. This theory yields in particular a comparison between smooth p -adic sheaves and F -isocrystals on the level of certain Tannakian categories, p -adic Hodge theory for relative Malcev completions of fundamental groups and their Lie algebras, and gives information about the action of Galois on fundamental groups.

university of oregon math department: Points and Curves in the Monster Tower Richard Montgomery, Mikhail Zhitomirski, 2010-01-15 Cartan introduced the method of prolongation which can be applied either to manifolds with distributions (Pfaffian systems) or integral curves to these distributions. Repeated application of prolongation to the plane endowed with its tangent bundle yields the Monster tower, a sequence of manifolds, each a circle bundle over the previous one, each endowed with a rank 2 distribution. In an earlier paper (2001), the authors proved that the problem of classifying points in the Monster tower up to symmetry is the same as the problem of classifying Goursat distribution flags up to local diffeomorphism. The first level of the Monster tower is a three-dimensional contact manifold and its integral curves are Legendrian curves. The

philosophy driving the current work is that all questions regarding the Monster tower (and hence regarding Goursat distribution germs) can be reduced to problems regarding Legendrian curve singularities.

university of oregon math department: *The Grothendieck Inequality Revisited* Ron Blei, 2014-09-29 The classical Grothendieck inequality is viewed as a statement about representations of functions of two variables over discrete domains by integrals of two-fold products of functions of one variable. An analogous statement is proved, concerning continuous functions of two variables over general topological domains. The main result is the construction of a continuous map Φ from $L^2(A)$ into $L^2(\Omega_A, \mathbb{P}_A)$, where A is a set, $\Omega_A = \{-1, 1\}^A$, and $\mathbb{P}_A$ is the uniform probability measure on Ω_A .

university of oregon math department: *Automorphisms of Manifolds and Algebraic K-Theory: Part III* Michael S. Weiss, Bruce E. Williams, 2014-08-12 The structure space of a closed topological n -manifold classifies bundles whose fibers are closed n -manifolds equipped with a homotopy equivalence to $\mathbb{R}^n$. The authors construct a highly connected map from $\mathcal{B}(\mathbb{R}^n)$ to a concoction of algebraic K -theory and algebraic K -theory spaces associated with $\mathbb{R}^n$. The construction refines the well-known surgery theoretic analysis of the block structure space of $\mathbb{R}^n$ in terms of K -theory.

university of oregon math department: *The Regularity of General Parabolic Systems with Degenerate Diffusion* Verena Bögelein, Frank Duzaar, Giuseppe Mingione, 2013-01-28 The aim of the paper is twofold. On one hand the authors want to present a new technique called p -caloric approximation, which is a proper generalization of the classical compactness methods first developed by DeGiorgi with his Harmonic Approximation Lemma. This last result, initially introduced in the setting of Geometric Measure Theory to prove the regularity of minimal surfaces, is nowadays a classical tool to prove linearization and regularity results for vectorial problems. Here the authors develop a very far reaching version of this general principle devised to linearize general degenerate parabolic systems. The use of this result in turn allows the authors to achieve the subsequent and main aim of the paper, that is, the implementation of a partial regularity theory for parabolic systems with degenerate diffusion of the type $\partial_t u - \operatorname{div} a(Du) = 0$, without necessarily assuming a quasi-diagonal structure, i.e. a structure prescribing that the gradient non-linearities depend only on the the explicit scalar quantity.

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