PROBABILITY and MATHEMATICAL PHYSICS

INTRODUCING PMP

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2020

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PROBABILITY and MATHEMATICAL PHYSICS
Vol. 1, No. 1, 2020
https://doi.org/10.2140/pmp.2020.1.1

INTRODUCING PMP

We are very pleased to present the first issue of *Probability and Mathematical Physics* (PMP), a new journal devoted to publishing the highest quality papers in all topics of mathematics relevant to physics, with an emphasis on probability and analysis and a particular eye towards developments in their intersection.

The interface between mathematical physics, probability and analysis is indeed an active and exciting topic of current research. We are thinking, for example, of progress on statistical mechanics models and renormalization methods, SPDEs related to mathematical physics, random matrix theory, integrable probability, quantum gravity and SLEs, kinetic theory and the microscopic derivation of macroscopic laws, many-body quantum mechanics, fluid mechanics and turbulence theory, general relativity, semiclassical analysis, Anderson localization, and much else. The journal's scope therefore encompasses the traditional topics of mathematical physics as well as topics in probability and the analysis of PDEs that are most relevant to physics.

In this first issue, we are proud to publish six excellent papers which serve as perfect examples — in terms of quality, scope as well as breadth — of the kind of mathematics we intend to publish in PMP.

Our intention in founding PMP was to create a nonprofit journal published and controlled by the mathematical community that would be at the highest level in its field. Thanks to MSP and the other members of the editorial board, who immediately believed in our project, this vision has been quickly realized.

In the first year since we began accepting submissions, the community has responded very positively and submitted many papers, surpassing our expectations. We currently have a robust pipeline with many promising articles, and we expect to continue to build momentum over the next several years by publishing the most exciting and diverse mathematical research motivated by physics.

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Probability and Mathematical Physics (ISSN 2690-1005 electronic, 2690-0998 printed) at Mathematical Sciences Publishers, 798 Evans Hall #3840, c/o University of California, Berkeley, CA 94720-3840 is published continuously online. Periodical rate postage paid at Berkeley, CA 94704, and additional mailing offices.

PMP peer review and production are managed by EditFlow® from MSP.

PUBLISHED BY
mathematical sciences publishers
nonprofit scientific publishing
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