

**Vytautė Pilipauskaitė<sup>\*,†</sup>**

## **Anisotropic scaling of random grain model**

*Joint with Donatas Surgailis<sup>\*</sup>*

*<sup>\*</sup>Vilnius University, <sup>†</sup>Université de Nantes*

We obtain a complete description of anisotropic scaling limits of random grain model on the plane with heavy tailed grain area distribution. The scaling limits have either independent or completely dependent increments along one or both coordinate axes and include stable, Gaussian and ‘intermediate’ infinitely divisible random fields.

## **References**

- [1] Pilipauskaitė, V. and Surgailis, D. (2016). Anisotropic scaling of random grain model with application to network traffic. [arXiv:1510.07423](https://arxiv.org/abs/1510.07423), *J. Appl. Probab.* (to appear)