

## Cylinders' percolation in three dimensions

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In this talk we will overview the recently introduced model of cylinders' percolation and the main results that have already been established for it. This process consists of a Poissonian cloud of infinite cylinders, placed in  $R^d$  in a invariant way, with density governed by a positive parameter  $u$ . After motivating the study of this model, we will state the main results that have already been proved concerning its phase transition as we vary  $u$ . This talk is based on a joint work with Marcelo Hilário and Vladas Sidoravicius which can be found at <http://w3.impa.br/~augusto/>.