## Homogenization in Perforated domains

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## Abstract:

We present here the method of periodic unfolding in perforated domains. The main feature of this method is the fact that functions defined on perforated domains on fixed domains. To do that, no extension operators are needed and so, on can treat domains with complex geometries. In particular, the holes can cut the boundary of the domain. Consequently, we could answer some open questions related to this situation.