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# Mass transport in tilings

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## Abstract

Suppose that we have a non-periodic tiling and two mass distributions, each determined locally from the tiling (e.g. you specify how much mass is in each A tile, each B tile, etc.). Under what circumstances is there a bounded transport from one distribution to the other? When can the transport be done in a way that reflects the local structure of the tiling? In this talk I'll show how these questions are equivalent to questions about tiling cohomology, and provide partial answers.

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