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Percolation on infinitely ramified fractal networks

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Highlights

- Percolation thresholds and critical exponents are determined for four Sierpinski carpets.
- Critical exponents are dependent on three dimension numbers of the fractal.
- Hyperscaling relations are governed by the Hausdorff dimension.
- Percolation threshold is controlled by the topological Hausdorff dimension.
- Sierpinski carpets and square lattice belong to the same universality class.

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