



ID de Contribution: 35

Type: **Non spécifié**

## Topological Properties at Fractal Dimensions

*lundi 12 septembre 2022 11:00 (30 minutes)*

### Abstract

Fractals have been used since long as decorative art, but only in the last century they have been classified. Last year, we unveiled the quantum dynamics in fractals using photonics experiments. By injecting photons

### References

[1] S.N. Kempkes, M.R. Slot, S.E. Freeney, S.J.M. Zevenhuizen, D. Vanmaekelbergh, I. Swart, and C. Morais Smith, "Design and characterization of electronic fractals", *Nature Physics* 15, 127 (2019) [see also 15 years of *Nature Physics*, *Nature Physics* 16, 999 (2020)].

[2] X.-Y. Xu, X.-W. Wang, D.-Y. Chen, C. Morais Smith, and X.-M. Jin, "Quantum transport in fractal networks," *Nature Photonics* 15, 703 (2021).

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**Classification de Session:** Plenary