



Artist's representation of spatiotemporal photonic snake states. [Image by M. Mañas-Carbonell]

Some Highlights of Optics in 2023

Each December, OPN offers a look at some of the most interesting peer-reviewed research in optics and photonics from the past year. The <u>"Optics in 2023"</u> lineup included summaries of cutting-edge work from European labs. Some highlights include:

- Researchers in Spain and Russia showed that transverse snake instabilities can be tamed in suitable optical microcavities to form stationary states that they call <u>photonic snakes</u>.
- A group in Germany combined advanced micro-optics, optical trapping and cooling, and the optical Talbot effect to <u>increase the number of</u> <u>qubits in a quantum computer</u> from several hundred to over ten thousand without proportionally requiring more resources.
- Scientists in Germany and the Netherlands demonstrated an <u>on-chip</u>, <u>robust</u>, <u>lightweight quantum light source</u>.
- A team in the UK and Northern Ireland proposed a <u>new approach to</u> <u>tracking moving objects through scattering media</u> using correlationbased imaging.

Browse the feature to read about more intriguing new research from researchers in Europe—and around the world. [Read the article]

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