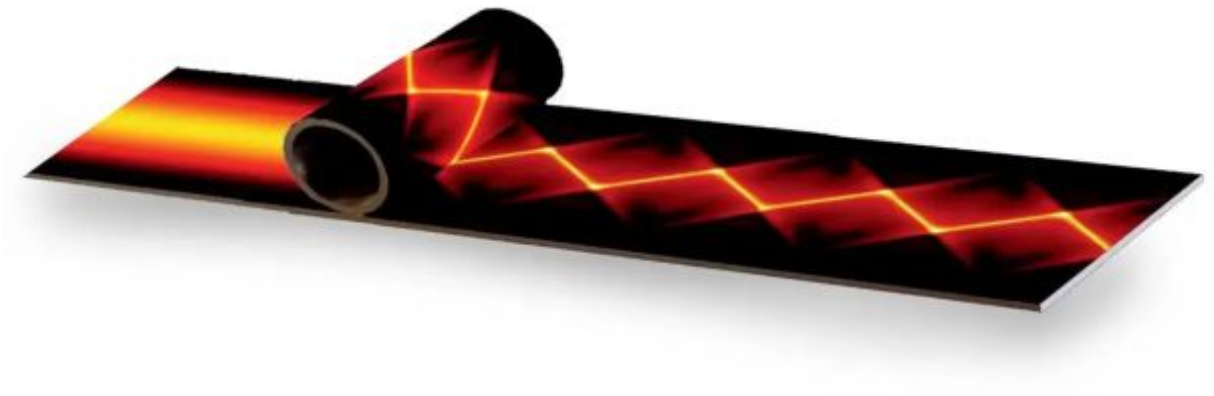


OPN?s Optics in 2023

ICFO- UPV collaboration highlighted in the annual special edition

December 04, 2023

Each year, the December issue of Optics & Photonics News-the monthly magazine of Optica (formerly OSA)-highlights the most exciting optics research to emerge in the preceding 12 months.

This year the paper titled i¿½Photonic snake states in two-dimensional frequency combsi¿? , a work published in **Nature Photonics** by a group of researchers led by ICFOnian Carles Milian, now a Professor at the Institut Universitari de Matematica Pura i Aplicada, Universitat Politecnica de Valencia, was picked to belong to the i¿½Optics in 2023i¿½ special an ual selection of the most relevant works published in the year worldwide. The team inc uded also ICFOnians Salim B. Ivars (former Master student at ICFO), and Yaroslav V. Kartashov (now Professor at the Russian Academy of Sciences), and Prof. Lluis Torner. In the featured p per, researchers provided an innovative framework for the understanding and control of the long known highly destructive snake instabilities. These instabilities form stationary nonl near photonic snakes, which introduce a novel type of nonlinear waves and, most importa tly, provide a generalization of the concept of optical frequency

omb. Congratulations to all who collaborated on this high impact work!