

Fizički odsjek, PMF, Sveučilište u Zagrebu  
Bijenička cesta 32

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## Kolokvij Fizičkog odsjeka

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Time	Location
Wednesday, 27 <sup>th</sup> July 2022, 11:00	F102
Link	id
<a href="https://zoom.us/j/8205066086">https://zoom.us/j/8205066086</a>	820 506 6086

### Nonlinearity-controlled photonic topological states

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In nature, there are numerous distinct phenomena mediated by symmetry, topology, and nonlinearity, even though a complex system simultaneously exhibiting all these features seems hard to attain. Recent advances with synthetic photonic structures, however, opened the door for exploring many intriguing phenomena mediated by the interplay of these concepts. In this talk, I will highlight a few related demonstrations, including nonlinearity-induced nontrivial mode coupling between bulk and topological edge states, nonlinear tuning of parity-time symmetry and non-Hermitian topological states, and nonlinear control of BIC-like and p-orbital-like corner states in crystalline higher-order topological insulators (HOTIs).

Voditelji seminara FO  
Sanjin Benić i Damjan Pelc