



Contribution ID: 262

Type: **Poster**

## **Enabling the exploration of exotic imaging phenomena triggered by non-linear fluorophores in confocal systems**

*Tuesday 13 December 2022 18:45 (15 minutes)*

We present a powerful theoretical framework, organized as user-friendly open-source tool, for exploring image formation in confocal microscopes when using non-linear fluorophores. It allows extremely convenient image optimization and enables the unraveling and exploration of unexpected and exotic imaging phenomena.

**Authors:** Dr DENKOVA, Denitza (Institute for Bioengineering of Catalonia (IBEC)); Dr ORTH, Antony (National Research Council of Canada, Ottawa, Ontario, K1K 3Y2, Canada); Dr OJOSNEGROS, Samuel (Institute for BioEngineering of Catalonia (IBEC), 08028 Barcelona, Spain); Dr PLOESCHNER, Martin (School of Information Technology & Electrical Engineering, Uni. of Queensland, Brisbane, 4072, Australia)

**Presenter:** Dr DENKOVA, Denitza (Institute for Bioengineering of Catalonia (IBEC))

**Session Classification:** Poster session

**Track Classification:** ANZCOP: ANZCOP: Microscopy, spectroscopy and imaging