

## Ignacio Robles

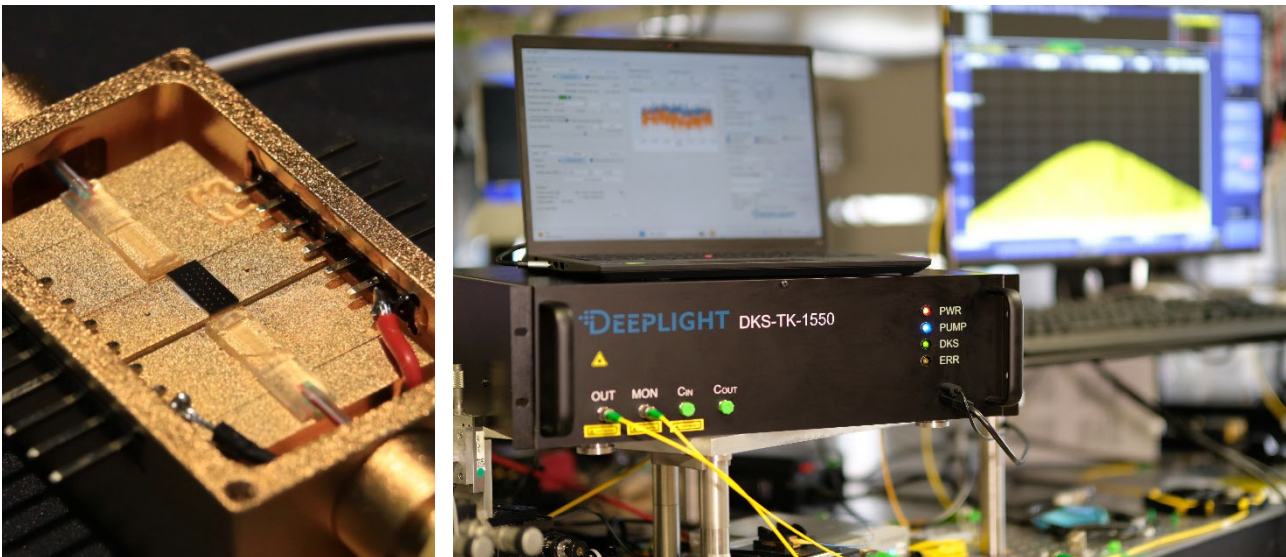
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# From Prototype to Turn-Key Systems: Commercializing DKS Microcomb Technology

Deeplight will present its latest advances toward the commercialization of Dissipative Kerr Soliton (DKS)-based optical microcombs. The talk will highlight how early prototypes of this technology are already being deployed in field environments, and share key lessons learned from translating cutting-edge developments from the CombTools project [1] into application-oriented systems. Most importantly, Deeplight will showcase its own fully turn-key DKS microcomb system – an important step toward demonstrating the potential of microcomb technology in applications where it can have the greatest impact.

### References

- [1] Ji, X., Li, X., Qiu, Z. et al. Deterministic soliton microcombs in Cu-free photonic integrated circuits. Nature 646 (2025) 843–849



**Figure 1:** (Left) Picture of butterfly-packaged DKS microcomb chip developed in CombTools. (Right) Picture of DKS-enabled Turn-Key microcomb system, system and control software running on computer in foreground and output optical spectrum in background.