

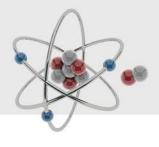
Electrically pumped photonic integrated soliton microcomb

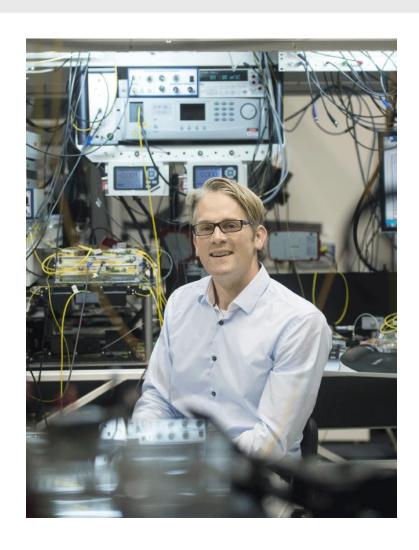
Arslan S. Raja, Andrey S. Voloshin, Hairun Guo, Sofya E. Agafonova, Junqiu Liu, Alexander S. Gorodnitskiy, Maxim Karpov, Nikolay G. Pavlov, Erwan Lucas, Ramzil R. Galiev, Artem E. Shitikov, John D. Jost, Michael L. Gorodetsky & Tobias J. Kippenberg

Nature Communications

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Tobias Kippenberg





Biography

2004: PhD, California Institute of Technology (Advisor Professor Kerry Vahala)

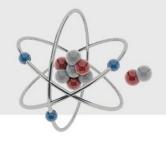
2005-2006: Postdoctoral Scholar, Center for the Physics of Information, California Institute of Technology

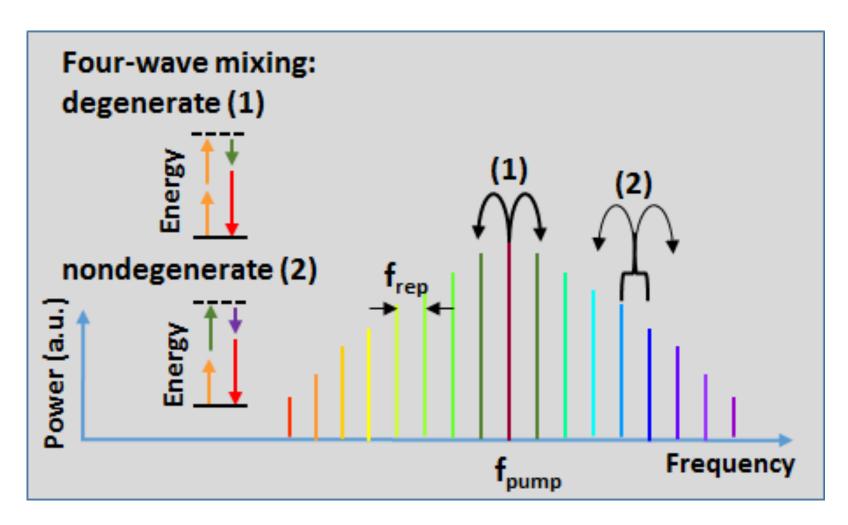
2013 - present: Full Professor, EPFL Laboratory of Photonics and Quantum Measurements.

RESEARCH INTERESTS

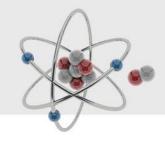
Experimental and theoretical research in photonics, notably high Q optical microcavities and their use in cavity quantum optomechanics and frequency metrology.

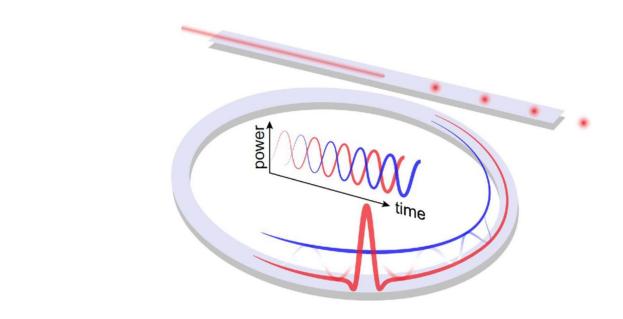
Kerr Microcomb





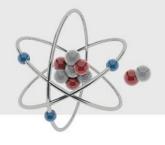
Soliton & DKS

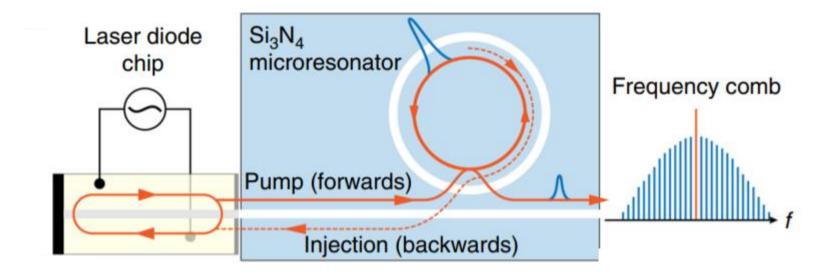




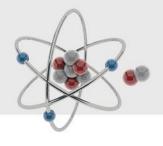


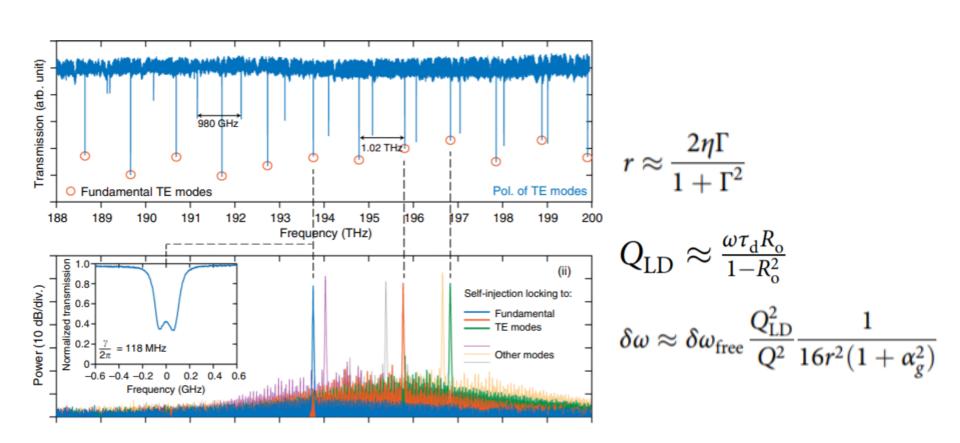
Experimental Setup



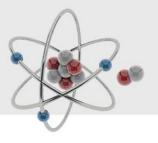


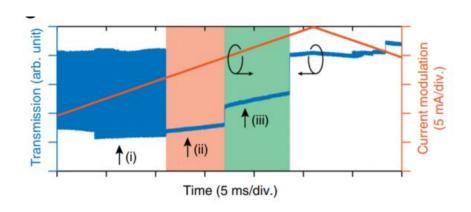
Self-Injection Locking

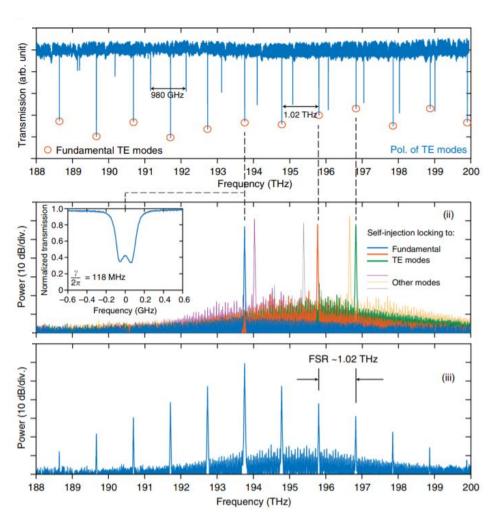




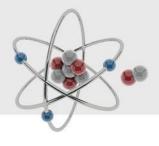
Kerr Frequency Comb Generation

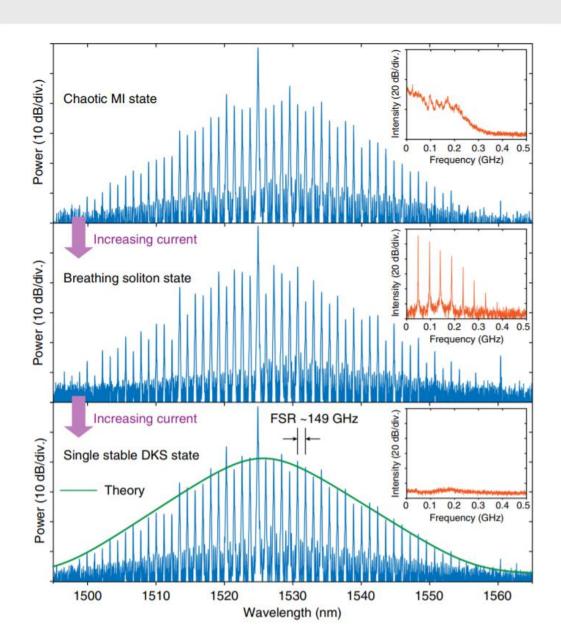




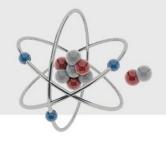


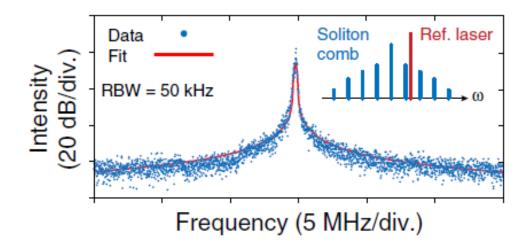
DKS Formation

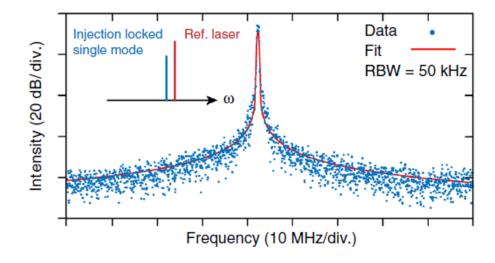




DKS Formation







DKS Formation

