

1125-78-1706

Alexey Sukhinin* (asukhini@uvm.edu). *Coupled microring cavities under PT-symmetry*. Preliminary report.

A new family of lasers based on parity-time(PT) symmetry has been introduced a few years ago. It is believed that such lasers have potential for greater tunability and single mode generation with high purity. The principle of PT-symmetry transpire in the dynamical interplay between optical gain and loss between laser cavities. In this talk I discuss the mathematical model and present preliminary analysis of various configurations of PT-symmetric coupled microring cavities. (Received September 18, 2016)