

## **The impact of coherent control concepts on ultrafast lasers and applications**

Marcos Dantus  
Michigan State University

The early Shapiro-Brumer coherent-control concepts, where two lasers reaching a given transition interfere constructively or destructively, have inspired experiments using broadband lasers where multiphoton intrapulse interference (MII) takes place. This talk will review the link between MII and the early coherent control schemes and then illustrate how MII is already being used to improve ultrafast lasers, pulse characterization and compression, and a wide range of applications.