

Colloquium Notice

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Chaos and Synchronization in Delay-Systems

Time-delayed feedback occurs in many systems and is particularly important at high-speeds, where the time it takes signals to propagate through the device components is comparable to the time scale of the fluctuations. A fascinating feature of such systems is that seemingly simple devices can show exceedingly complex dynamics. This has motivated the use of electronic and photonic time-delay feedback devices in practical applications of chaos, such as ranging and synchronization based chaos communications, for which microwave and radio-frequency oscillators are needed. I will give an overview of our recent work on high-speed chaos generators, synchronization, and chaos communication.

Monday

February 26, 2007

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326