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FREE EVENT - REGISTER TODAY

Sponsored and presented by National Tsing Hua University
Electric Field Control of Magnetism for Beyond CMOS Electronics

Date: January 9, 2022
Time: 11:00PM - 12:00AM

You must be registered to participate!

Speakers:
• Ramamoorthy Ramesh, University of California, Berkeley

Hosts:
• Ying-Hao Chu, National Chiao Tung University
• Ming-Yen Lu, National Tsing Hua University

Complex perovskite oxides exhibit a rich spectrum of functional responses, including magnetism, ferroelectricity, highly correlated electron behavior, superconductivity, etc. The basic materials physics of such materials provide the ideal playground for interdisciplinary scientific exploration with an eye towards real applications. Over the past decade the oxide community has been exploring the science of such materials as crystals and in thin film form by creating epitaxial heterostructures and nanostructures. Among the large number of materials systems, there exists a small set of materials which exhibit multiple order parameters; these are known as multiferroics, particularly, the coexistence of ferroelectricity and some form of ordered magnetism (typically antiferromagnetism). The scientific community has been able to demonstrate electric field control of both antiferromagnetism and ferromagnetism at room temperature.

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