
Physics Colloquium

University of Missouri-Kansas City

Department of Physics

Professor Donald Priour
University of Missouri-Kansas City
Physics Department

Seeing what's inside: physics and contemporary
diagnostic radiology technologies

Spurred in part by advances in digital imaging and computer processing, diagnostic tools in medical radiology have become powerful and indispensable components of modern medicine. To a remarkable degree, radiology technologies owe their success to the exploitation and understanding of a host of physical phenomena from the refraction and diffraction of acoustical waves in ultrasound to the role of core energy levels in X ray and CT imaging to the importance of the fundamentally quantum mechanical Zeeman shift in magnetic resonance imaging (MRI). Salient contemporary radiology modalities are explored with an emphasis on the physical principles which undergird the techniques.

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Physics Department
Robert H. Flarsheim Science & Technology Hall
5110 Rockhill Road
University of Missouri-Kansas City

****Coffee at 3:10: Colloquium at 3:30 in Room 310****