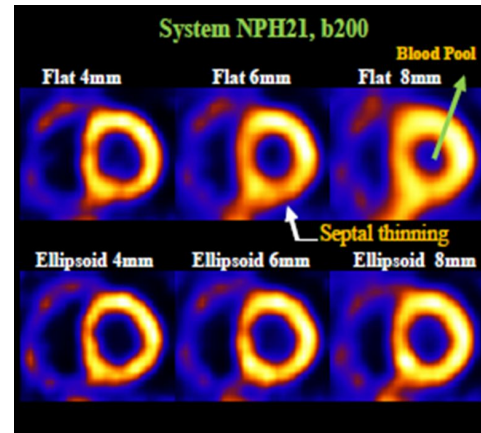


SATURDAY SCIENCE

Camera (gamma detector) for the heart

A public lecture by
Dr. Joyoni Dey



About the Speaker

Dr. Dey is an Assistant Professor in the Department of Physics and Astronomy in the Medical Physics program. She focuses on designing new systems and algorithms to help large patient populations with new imaging advances: for example, faster systems for more efficient acquisition, lowering dose requirement, accurate pathological quantification, correct motion artifacts for better diagnosis.

Single Photon Emission Tomography (SPECT) is a medical imaging modality used primarily to assess heart disease, with about 7 million patients scanned per year in the USA alone. SPECT systems detect gamma-rays emitted from injected radio-tracers, up-taken by the heart. Dr. Dey will talk about her invention of a new SPECT system that improves sensitivity three-fold compared to state-of-the-art, lowering dose and time-of-acquisition for Cardiac SPECT.

22 April 2017, 10-11:00 a.m.

Room 130 Nicholson Hall, LSU

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