



Physics Graduate Seminar

13:30 pm, Tuesday, February 7, 2012, Rm B201

Cyclic Correlation of Diffuse Reflected Signal with Glucose

Concentration and scatterer size

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Abstract: The utility of optical coherence tomography signal intensity for measurement of glucose concentration has been analysed in tissue phantom and blood samples from human subjects. The diffusion equation based calculations as well as in-vivo OCT signal measurements confirms the cyclic correlation of signal intensity with glucose concentration and scatterer size.