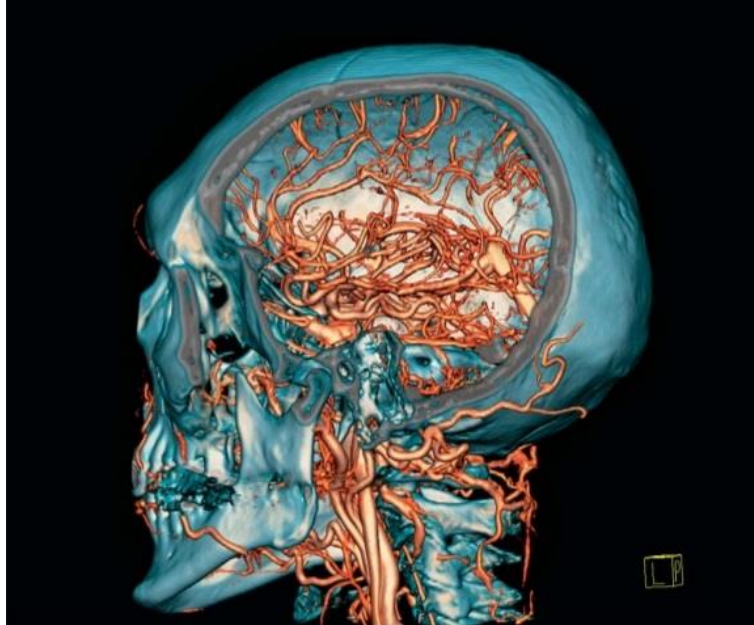




PHYSICS

COLLOQUIUM



Dr. Geoff Nelson
University of Utah

The Physics of Dual-energy CT

Abstract

Dual-energy CT is a new(ish) technology which takes greater advantage of the underlying photon-matter interactions than traditional CT. Leveraging the different interaction types, dual-energy CT can provide some function imaging information, and better material identification than single-energy CT.

There's something in this presentation for everyone. If you're solely interested in "pure" physics, we will be covering the physics principles behind Dual-energy CT and discussing how the underlying physics influenced the design. If you're interested in applied physics, virtually the whole thing is for you. If you're interested in biology/medicine, come learn what some new technology is capable of and how it is currently being used clinically. If you want to know what the Beatles have to do with any of this, it will also be covered.

3:00 p.m. - 4:30 pm, Friday, February 8th , McLane 162