



Physics Colloquium

Friday, 22 January 2010, 4:00pm, PSC 3046

Dr. Mike Silver

St. Martha's Regional Hospital, Antigonish

Artifacts in Medical Imaging

Diagnostic Imaging relies on a wide range of technologies which take advantage of physical properties of matter and energy ranging from acoustics to quantum mechanics and everything in between. In the process of observing these properties and converting that information to images there are a number of imaging features which arise and do not reflect true anatomy or pathology. These anomalies have been coined "artifacts". Occasionally these can cause confusion and misdiagnosis however if one understands the physics behind the artifact they can often add another diagnostic clue.