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Introduction to Edge-Illumination X-ray Phase Contrast Imaging

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Over recent years, many techniques have been developed to improve the performance of medical x-ray imaging. Traditional x-ray imaging is based on x-ray attenuations. However, the attenuation contrast is low for light elements or density-similar materials such as soft tissues. X-ray phase contrast imaging (PCI) has drawn many researchers' attention in the past years since phase contrast is much more sensitive than attenuation contrast. The edge-Illumination method is one of the most promising techniques of x-ray phase contrast imaging. In this talk, we will introduce this technique and show the benefits of phase contrast imaging.

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