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On the phase contrast imaging by parametric x-rays

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In the current contribution we analyze PXR-based phase contrast imaging in detail. It is shown that a PXR source can provide necessary spatial resolution, penetrating power, and sensitivity to soft tissue that is required to visualize biological and medical specimens on a scale from millimeters to microns. It should be also mentioned that because higher quality images require greater x-ray fluxes, there exists an inherent balance between image quality and bio-tissue damage.

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