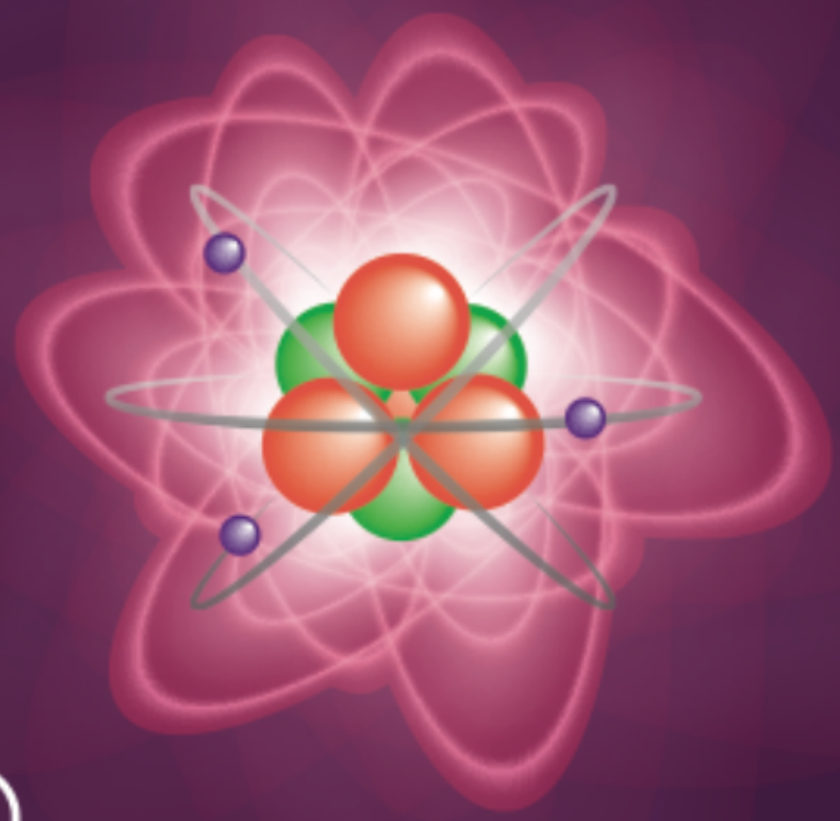
FÍSICA

SEMINÁRIO



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Data: 04 de setembro (quarta-feira)
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Local: Bloco 04, Espaço 03, sala 01

Residual X-ray back-diffraction: Can we further increase the energy resolution working at diffraction angles > 90 degrees?

Prof. Dr. Marcelo G. Hönnicke

X-ray back-diffraction (XBD) is the geometry required for high to ultra-high energy resolution experiments. Studies on the basic properties of back-diffracted X-ray beams at energies slightly above the exact XBD condition (extreme condition, where lambda > 2.d and XBD is almost extinguished – called residual XBD) are better focused if the experiment is carried out at lower energies in order to avoid the multiple beam diffraction effects. In this talk we are going to show our efforts in characterizing the residual XBD beam to demonstrate that under this extreme condition the energy resolution can be further improved.