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PS1-28: Ceramic Accelerator

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Usually, pyroelectric crystals are applied in pyroelectric accelerators. In present paper, the possibility for application of polarized ferroelectric ceramics instead of pyroelectric crystals in a pyroelectric accelerator is shown experimentally. Spectra of X-ray radiation with energy up to tens keV excited by accelerated electrons has been observed at heating and cooling of the ceramics in vacuum. Application of curved layers of polarized ferroelectric ceramics as elements of miniature pyroelectric accelerator is proposed and discussed.

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