

DECAY ACCELERATION OF ISOMERS BY X-RAY LASER

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We analyzed the possibility of the two-step triggering of nuclear isomers by short X-ray laser pulses via an excited intermediate level. The estimations of the decay acceleration are performed for the 6^- isomer of ^{84}Rb in the field of future European X-ray laser.

Keywords: X-ray laser, nuclear isomer, triggering, energy release, decay acceleration.