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IPEN-DOC- 6033

BR9400008 Development of a dosimetric system for laser radiation using $CaSO_4$:Dy thermoluminescent material.

Topic codes: I.

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Sponsoring Organization(s): Comissao Nacional de Energia Nuclear - San Paulo (San Paulo, Brazil).

Organization Type: Foundation or laboratory for research and/or development

Collaborating Organization(s) Conselho Nacional de Desenvolvimento Cientifico e Tecnologico - CNPq.

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The objective of this work is to study the thermoluminescent response of $CaSO_4$:Dy and other thermoluminescent materials exposed to different laser beams, and to get a thermoluminescent dosemeter for laser radiation personnel monitoring.

calcium sulfates; dysprosium; laser radiation; personnel monitoring; thermoluminescent dosimetry.

LASER RADIATION: thermoluminescent dosimetry; THERMOLUMINESCENT DOSIMETRY: calcium sulfates.

Bulgaria