

## Experimental study of light emission during positronium formation in matter exposed to slow positron beam

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Positronium atom (Ps) is formed in matter when a quasi-free electron and a positron diffuse into a free volume nearby. During the Ps formation, an excess of energy can be released and one of the ways of it is photon emission. Here, we present the result of experimental measurements of light emission in coincidence with positronium formation in the case of the samples of octacosane (n-alkane) and a porous silica exposed to a slow positron beam. Both the number of photons and their time of appearance were analysed.

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