

The process of splitting a photon in a strong magnetic field with taking account of the positronium influence on the photon dispersion

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We study the process of splitting a photon in a strong magnetic field with taking account of the positronium influence on the photon dispersion. The positronium contribution into the photon polarization operator leads to an essential modification of the photon dispersion law, and of the photon decay amplitude. It has been shown that the probability of the photon decay changes under an influence of the positronium on the photon dispersion.

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