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## Resonances in positron scattering on a supercritical nucleus and spontaneous production of $e^+e^-$ pairs.

Solving the Dirac equation for a positron in the Coulomb field of a nucleus with  $Z > Z_{cr}$  we observe (confirm) the resonance dependence of the scattering phase on the energy of the positron. Physical interpretation of these resonances is suggested.

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