

Type: **2.Parallel session talk**

Tuesday, 24 September 2024 17:00 (30 minutes)

We present the results of our theoretical study of the behavior of cross sections of low-energy scattering in the systems $e+pe^-$ and $e-pe^-$. Our computational experiment is based on solution of the Merkuriev-Faddeev equations in the total orbital momentum representation [7, 8] and the recently obtained original theoretical results on the wave function asymptote for the three-body Coulomb system in the presence of particle-atom dipole potential [9]. The latter is critically important for obtaining the reliable results at sufficiently small above threshold energies [10]. We have observed the existence of the Gailitis-Damburg oscillations in the partial cross sections [11]. Surprisingly, some of the obtained results contradict the theory of Gailitis and Damburg. We discuss it in our talk.

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