

# On asymptotics of the scattering problem solution of $n$ like-charged quantum particles.

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We extend an approach suggested earlier in the set of papers [1]-[3] for the description of the main order of the three three-dimensional charged quantum particles scattering problem with repulsive pair potentials on the case of  $n$  three-dimensional charged quantum particles scattering problem. We demonstrate that the discrepancy of the suggested ansatz in the Schredinger equation decreases quicker than the Coulomb potential for a broad set of asymptotic configurations. The behaviour of the ansatz for some configurations has been considered in [4].

- [1] V.S.Buslaev and S.B.Levin, *Amer.Math.Soc.Transl.(2)*v.225, pp.55-71, (2008)
- [2] V.S.Buslaev, S.B.Levin, *Algebra and Analysis*, 22(3), pp.60-79, (2010) (in russian)
- [3] V.S.Buslaev, S.B.Levin, *Functional Analysis and its Applications*, 46(2), pp.83-89, (2012)
- [4] Ya.Yu.Koptelov, S.B.Levin, *Nuclear Physics*, (accepted for publications)

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