

of electronic objects with a fractional of electron charge ($e/2$, $e/3$, etc.) is reviewed in paper [35]. One more possible mechanism the influence of the strong interaction on the dynamics of [7, 8]. Moreover it is of nucleons. According ds, whose quanta are e fields have vacuum manifestation of strong new physics.

1 Conclusion.

The experimental evidence of the macroscopic manifestation of strong nuclear interaction in optical spectra of solids which are differ by term of one neutron from each other has been presented for the first time. This evidence is based on two independent experimental results, which is directly seen from luminescence and reflection spectra. As far as the gravitation, electromagnetic and weak interactions are the same in both of kind crystals, it only changes the strong interaction. Therefore a sole conclusion is made that the renormalization of the energy of electromagnetic excitations (excitons, phonons) is carried out by the strong (nuclear) interaction. There is underlined the necessity consideration the strong (nuclear) interaction in quantum electrodynamics.

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