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## Particle configurations in $NN\bar{K}$ quasi-bound state

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Three-body  $NN\bar{K}$  model for the " $ppK^-$ " quasi-bound kaonic cluster is considered on the basis of the configuration space Faddeev equations. A single-channel approach is used taking into account the difference of nucleon and kaon masses as well as the charge independence breaking of nucleon-nucleon interaction. Two sets of the particle configurations,  $ppK^-$ ,  $np\bar{K}^0$  and  $nn\bar{K}^0$ ,  $npK^-$ , are presented as charged and neutral systems according to total isospin projections. We formulate an AAB model for each configuration. The calculations are performed with NN and  $N\bar{K}$  phenomenological isospin dependent potentials. The mass and energy spectra are calculated. The mass deference effect was found to be not significant, less then 1 MeV. The Coulomb force contribution of the  $ppK^-$  configuration is computed. The attraction effect of the NN interaction is shown and exchange term related to permutation of identical particles is evaluated. The spatial distribution of the particles in the systems is given.

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