## Electrostatic energy of binary Coulomb crystals

## Kozhberov A A

Ioffe Institute, Polytekhnicheskaya 26, Saint-Petersburg 194021, Russia kozhberov@gmail.com

We study electrostatic properties of ordered Coulomb crystals. We consider eight different binary bcc-like (bcc-body-centered cubic) lattices and calculate their electrostatic energies. This made possible to describe the electrostatic energy by a common approximation equation and to obtain corrections to the "linear mixing rule" for binary solids. For the selected cases comprising with results, obtained earlier, are made.