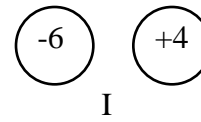
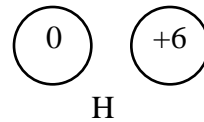
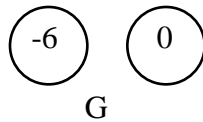
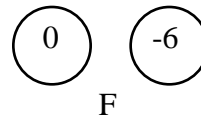
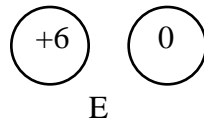
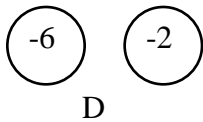
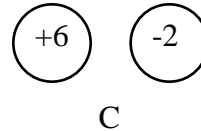
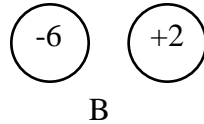
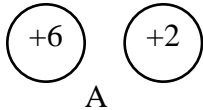


Transfer of Charge in Conductors—Left Conductor ¹⁴⁵

In each of the following situations two conducting spheres with the same size are shown with an initial given number of units of charge. The two spheres are brought into contact with each other. After several moments the spheres are separated.

Rank the situations as to the quantity of charge on the first (left) sphere from the highest positive charge to the lowest negative charge after they have been separated. (Note that -6 is lower than -2.)



Highest 1___ 2___ 3___ 4___ 5___ 6___ 7___ 8___ 9___ Lowest

Or, the charge on the first (left) sphere after contact will be the same for all cases. _____

Or, the first (left) sphere after contact will have no charge for all cases. _____

Please carefully explain your reasoning.

How sure were you of your ranking? (Circle one)

Basically Guessed

Sure

Very Sure

1 2 3 4 5 6 7 8 9 10

¹⁴⁵ J. Gundlach, B. Kaasa, U. Pandey, M. West