

Write the ground state electron configuration (short form or long form) for an arsenic atom.

Give one permissible set of four quantum numbers for each of the outermost electrons in a single As atom when it is in its ground state.

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Is an isolated arsenic atom in the ground state paramagnetic or diamagnetic? _____
Justify your answer.

What **ion** would As be expected to form? _____ named _____
Write the electron configuration for the ion.