

PHYSICS

Standard Edit

LIBS is an elemental analysis technique that is based on the excitation of atoms located on ~~thea sample~~material's surface; ~~this excitation is induced~~ by focusing a pulsed laser beam ~~on the surface~~. ~~The M~~material ~~can be ablated in~~ concentrations ranging from ~~n~~nanograms to ~~#~~micrograms ~~can be ablated by using~~ this technique, ~~producing-generating~~ a microplasma ~~thatwhich~~ can be characterized by several ~~of~~ parameters. After the ~~creation~~generation of the ~~micro~~plasma, electromagnetic radiation is emitted ~~owing tounder~~ several processes, namely, ~~the~~ bremsstrahlung ~~process~~, recombination, and de-excitation of atoms and ions ~~occurring insidein~~ the laser plume [1]. ~~The D~~de-excitation of atoms and ions leads to light emission ~~atwith a~~ characteristic frequency, which can be used ~~for-in~~ both ~~the~~ qualitative and ~~the~~ quantitative determinations.

Formatted: Line spacing: 1.5 lines

Comment [A1]: Please provide the full form of this abbreviation, since it appears to be its first mention in the main text.