

## **35. Investigation of Change in Color of the Glow Discharge of the Elements by Fractional Abundances**

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### **ABSTRACT**

Investigation of change in colour of the glow discharges of various elements in the interface of solid and liquid have been carried out and comes to the conclusion that monochromatic light at various wavelengths can be generated using glow discharge. In order to investigate the optimum parameters for getting good monochromatic sources applied, we obtained fractional abundances of the elements like Li,Na,Mg,K,Ni,Cu,Zn,Se,Zr,Cd,Fe and Ti as a function of electron temperature with the help of electron impact excitation rate coefficients and recombination rate coefficients.

**Keywords:** Glow discharge, electron temperature, fractional abundances