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Research on the Temperature Prediction Model of Aluminum Atom Emission Spectrum

Based on the atomic spectra database (ASD), Al I 394.4nm and Al I 396.2nm were selected as the research object. The relationship between the particle temperature Te(eV) and the relative Intensity(a.u.) was analyzed by the method of regression analysis. The analysis found that the particle temperature Te(eV) and the relative Intensity(a.u.) both obey the exponential distribution.

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