Intensidades espectrales en compuestos de coordinación de los metales de transición: Aplicaciones a sistemas del tipo Cs2SnBr6:OsBr2-6

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The luminiscence spectrum of the Cs2SnBr6:OsBr2-6 system is examined utilizing a generalized vibronic formalisms. For illustrative purposes we have chosen the most characteristic excitations, which show up a rich and unexpected vibronic structures. These absorptions are tackled with emphasis on both the electronic and the vibrational factors which are responsible for both the overall and the relative vibronic intensities associated with generic transitions of the ?m = ?l + ?k (k = 3, 4, 6) type. The advantages and disavantages of the calculation models as well as a critical studies of the experimental data available are discussed. Relevant conclusions are drawn out in connection with the intensity spectral mechanism as well as the eventual influence on the calculated intensities due to the coupling among the internal and the external vibrations and some suggestions for improvements are put forward to advance the state of the art in the vibronic coupling theory.