



Analysis of $5f^3 \rightarrow 5f^2 6d^1$ transitions in the absorption spectrum of U^{3+} in Cs_2NaYCl_6 .

Autorzy

Janusz Drożdżyński

Rok wydania

1993

Czasopismo

Acta Physica Polonica A

Numer woluminu

84

Strony

975-977

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The electronic absorption spectrum of a $Cs_2 NaYCl_6 :U^{3+}$ single crystal was investigated in the 13000-45000 cm^{-1} spectral range at 300 K. An interpretation of the $5f^3 \rightarrow 5f^2 6d^1$ transitions on the basis of the Jiy interaction enabled the determination of the energy of the first unresolved level of the $5f^2 6d^1$ electronic configuration, the distance between the first two levels of the configuration as well as the splitting parameter of the d-electron in the crystal field.

Strona internetowa wydawcy

<http://www.ifpan.edu.pl>