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) New band systems of FeBr in the visible region. S. Paddi Reddy (Andhra Univ., Waltair). *J. Sci. Ind. Research* (India) 18B, 188–90(1959).—Four band systems attributed to the LiBr mol. were observed in the region 5720–6410 A. Pure, anhyd. $FeBr_3$ was excited with a high-frequency discharge from a 100-w. oscillator and a heavy current discharge from a 2000-v. d.c. generator. Starting from the shorter wave length side, the bands are designated as systems I, II, III, and IV. In each of the 1st 3 band systems, only 2 sequences were identified, while in the 4th, 3 sequences were observed. The vibrational analyses indicate that systems I, II, and IV have a common lower state, which is probably the ground state of the FeBr mol. Systems I and II, which consist of single-headed bands, may belong to a transition of the type $\Sigma-\Sigma$ with multiplicity 2 or 4. The bands of the systems III and IV show *P* and *Q* heads. In the 0,0 band of system IV, the 0 head is identified in addn. to the *P* and *Q* heads. Each of the systems III and IV may belong to a transition of the type $\pi - \Sigma$ with multiplicity 2 or 4.

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FeBr

1970

новая система полос

10 Д336. Новая система полос молекулы FeBr. Krishna Rao N. V., Tiruvenganna Rao P. A new band system of the FeBr molecule. «J. Phys.» (Gr. Brit.), 1970, **B 3**, № 5, 725—728 (англ.)

Спектр излучения молекулы FeBr возбуждался с помощью ВЧ-разряда в кварцевой кювете, содержащей нагретый железный порошок и пары Br. На спектрограммах, полученных с дисперсией 1,25 Å/*мм*, в области 3650—3760 Å обнаружена новая система полос с фиолетовым оттенением, обусловленная переходом $a^4\Pi—^4\Sigma$ и аналогичная II системе FeCl в области

Ф. 1970. 10 Д

3500—3650 Å. Положение наиболее резких кантов, образованных P_4-ветвями, может быть представлено в виде: $\nu_{v'v''} = 27056{,}8 + 315{,}1(v' + 1/2) - 0{,}4(v' + 1/2)^2 - -304{,}3(v'' + 1/2) + 0{,}85(v'' + 1/2)^2$. Приведена таблица наблюдаемых кантов полос; правильность классификации подтверждается изотопич. сдвигом полос.

В. Александров

FeBr

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(50458h) New band system of the iron bromide [FeBr] molecule. Rao, N. V. Krishna; Rao, P. Tiruvenganna (Dep. Phys., Andhra Univ., Waltair, India). *J. Phys. B* 1970, 3(5), 725–8 (Eng). The emission spectrum of the FeBr mol. is excited in a high-frequency discharge tube through a mixt. of heated Fe metal and Br vapor. The spectrum which has been photographed under high dispersion (1.25 Å/mm) reveals a new system of violet-degraded bands in the region λλ 3650–3760 Å. The system is interpreted as arising from a $^4\Pi$-$^4\Sigma$ transition analogous to the system *II* of FeCl in the region λλ 3500–3650 Å, analyzed previously. The P_4 heads can be represented by the following quantum formula $\nu_{v',v''} = 27056.8 + 315.1\,(v' + 1/2) - 0.40(v' + 1/2)^2 - 304.3(v'' + 1/2) + 0.85(v'' + 1/2)^2$. The vibrational assignments of the band heads are confirmed from a study of the obsd. Br isotope effect. RCBS

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