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SECTION MEDICAL SCIENCE

Saidov Qurbon Sayfulloyevich.

Buxoro davlat universiteti

Saidjanova Madina Shuxratovna.

BuxDU magistr.

NODIR YER GRANATLARINING MAGNIT XOSSALARI.

Terbiy nodir yer ionli ortaluminatning magnit xossalarini $420 - 750\text{nm}$ to'lqin uzunliklari intervalida, $90 - 300\text{K}$ temperatura oralig'ida harorat va spektral bog'liqliklari batafsil tadqiqot qilingan. TbAlO_3 kristallning [110] o'qi bo'ylab o'lchangan Verde doimiysining haroratga proporsionalligi, tajribaning berilgan geometriyasida Faradey aylanishida (tashqi H maydonda) Tb^{3+} - NY-ion elektron holatlarining Van-flek "qo'shilishlari" mexanizmining hissasi o'rganilgan.

Kalit so'zlar: Zeeman effekti, kristall maydon, Shtark effekti, kramers singletlari, granat struktura, ortoalyuminat, kvazidublet, kvaziizing.

Nodir yer (NE) granatlari-gallatlari va alyuminatlarining magnit xossalarini asosiy holatidagi Rassel-Saunders bog'lanishiga bo'ysinadigan NE-ionlarning tugallanmagan $4f$ -qobiq'i belgilaydi. Shu bilan birga $4f$ -elektronlarning to'lqin funkstiyalari yaxshi lokallashtirilgan, ya'ni $4f$ -qobiqlarning radiuslarini panjara doimiysiga nisbatan ancha kichik deb hisoblash mumkin, bu esa kristallardagi NE-ionlarni magnit ma'nosida erkin va o'zaro bir-biri bilan ta'sirlashmaydigan deb hisoblashga imkon beradi ($R^{3+} - R^{3+}$ magnitodipol o'zaro ta'surot faqatgina $T \sim 1\text{K}$ temperaturada ahamiyatga ega bo'ladi). Shuning uchun, NE-granatlar – gallatlar va alyuminatlar temperaturaning keng sohalarida parametrik hisoblanadi va faqat $\sim 2\text{K}$ dan past temperaturalarda antiferromagnit holatda bo'ladi. Lekin oxirgi vaqtarda NE-birikmalar (granatlar ortoalyuminatlar va boshqalar) magnetizmida quyidagi asosiy faktidan aktiv foydalaniladilar. NE-granatlarning magnit qabul qiluvchanligi χ (asosan T ning past sohalari) ning temperaturaga bog'liqligini (o'zini tutishini) aniq ifodalash uchun D_2 simmetriyaga ega bo'lgan past (kam) simmetrik kristall maydonning NE-ionlar energetik spektriga ta'sirini hisobga olish zarur. Bu holat past temperaturalarda hisobga olinsa past simmetriyali (D_{2s}, C_s va h.k.z. simmetriyani) o'zini notrevial tutadi. Birinchidan, NE-granat magnit qabul qiluvchanligi anizotropiyasiga, ikkinchidan, NE-ionlar (Dy^{3+}, Er^{3+}

) qatori asosiy dubletining g - faktori kuchli darajada anizotrop bo'lib – uning yagona g -parallel komponentasi noldan farqli bo'ladi va ion faqat bir yo'nalishda magnitlanadi.

Past simmetriyasi KM effekti va ancha katta bo'lgan kristallografik anizotrop magnit energiyasi – kristall panjara bilan magnit momentining o'zaro ta'sir energiyasi R^{3+} NE-ion magnit momentlarini «izing» magnetikka aylantirib, granat kristalida aniq bir yo'nalish bo'yicha joylashtiradi. Kramers NE-ionlari holida, atrof simmetriyasi va KM ning aniq parametrlari, NE-ion o'zini «izing» magnitidek tutishda katta rol o'ynaydi. Kramers dubletining aniq to'lqin funkstiyalaridagina g - tenzor anizotrop bo'ladi.

Bundan tashqari KM NE-ioni qabul qiluvchanligining ancha katta anizotropiyasiga olib keladi va buning natijasida tajriba ma'lumotlari mos keladi. Turli kristallografik yo'nalishlar bo'yicha $\chi(T)$ temperatura bog'lanishining sifat jihatdan farqli xarakterini aniqlaydi. Ishga asosan $H_{kr} = \alpha_2 B_2^0 O_2^0$ ko'rinishdagi sodda gamiltonian bilan bir oqli KM da kramers NE-ionining NE-ionining asosiy dublet holatini qarab chiqish mumkin. Ancha yuqori T da qabul qiluvchanlik izotrop bo'lishini ko'rsatish mumkin:

$$\chi_{//}^0 = \chi_{zz}^0 = \frac{2g_{j_0}^2 \cdot \mu_B^2 \cdot N}{3kT} \quad (1.2)$$

Bunda g_{j_0} - NE-ion asosiy multipleti Lande faktori. Shu vaqtning o'zida, temperatura pasayishi bilan z o'qi bo'yicha qabul qiluvchanlik $\frac{1}{T}$ ko'rinishda o'sib boradi va $KT \gg \Delta_1$ (Δ_1 -kramers ioni asosiy va birinchi qo'zg'olgan holatlari orasidagi masofa) shart bajarilganda ikki sathli sistemaning χ qabul qiluvchanligi ga mos keladi:

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