**Сведения об официальном оппоненте.**

|  |  |
| --- | --- |
| Ф.И.О. | Зайцев-Зотов Сергей Владимирович |
| Ученая степень. | Д-р физ.-мат. наук |
| Отрасль науки, по которой защищена диссертация. | 01.04.10 - Физика полупроводников |
| Полное и сокращенное наименование организации, являющейся основным местом работы. | Федеральное государственное бюджетное учреждение науки Институт радиотехники и электроники им. В.А. Котельникова Российской академии наук (ИРЭ РАН) |
| Должность | Заместитель директора |
| Список основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не более 15).  | [1] A.S. Sobolev, S.V Zaitsev-Zotov, M.V. Maytama, E.A Klimov, A.Y. Pavlov, D.S. Ponomarev, R.A. Khabibullin, Microwave characterization of a double-barrier GaAs/AlAs resonant tunneling diodes for active microstrip transmission lines, Optical Engineering, 60 (2021) 082018.[2] S.G. Zybtsev, V.Y. Pokrovskii, V.F. Nasretdinova, S.V. Zaitsev-Zotov, E. Zupanič, M.A. van Midden, Woei Wu Pai, The ultra-high-TP charge-density wave in the monoclinic phase of NbS3, Journal of Alloys and Compounds, 854 (2021) 157098.[3] V.E. Minakova, A.M. Nikitina, S.V. Zaitsev-Zotov, Forced Diffusion of Correlated Impurities in the Peierls Conductor o-TaS3, JETP Letters, 12 (2020) 346-351.[4] N.I. Fedotov, S.V. Zaitsev-Zotov, Numerical analysis of surface and edge states in slabs, stripes, rods and surface steps of topological insulators (vol 30, 485301, 2018), Journal of Physics-Condensed Matter, 31 (2019) 049501.[5] S.G. Zybtsev, V.Y. Pokrovskii, V.F. Nasretdinova, S.V. Zaitsev-Zotov, Anomalous Photoconduction of Low-Temperature Charge-Density Wave in NbS3-II as a Physical Basis of a Method for Detection of Weak Signals, Journal of Communications Technology and Electronics, 63 (2018) 1053-1058.[6] E. Zupanic, H.J.P. van Midden, M.A. van Midden, S. Sturm, E. Tchernychova, V.Y. Pokrovskii, S.G. Zybtsev, V.F. Nasretdinova, S.V. Zaitsev-Zotov, W.T. Chen, W.W. Pai, J.C. Bennett, A. Prodan, Basic and charge density wave modulated structures of NbS3-II, Physical Review B, 98 (2018) 174113.[7] E.A. Vilkov, I.N. Dyuzhikov, S.V. Zaitsev-Zotov, M.V. Logunov, S.A. Nikitov, S.S. Safonov, S.G. Chigarev, Generation of Terahertz Radiation Spectra by Radiation Sources Based on Solid-State Micro- and Nanostructures and Detection of Terahertz Spectra, Journal of Communications Technology and Electronics, 63 (2018) 1015-1026.[8] N.I. Fedotov, S.V. Zaitsev-Zotov, Numerical analysis of surface and edge states in slabs, stripes, rods and surface steps of topological insulators, Journal of Physics-Condensed Matter, 30 (2018) 485301.[9] S.G. Zybtsev, V.Y. Pokrovskii, V.F. Nasretdinova, S.V. Zaitsev-Zotov, V.V. Pavlovskiy, A.B. Odobesco, W.W. Pai, M.W. Chu, Y.G. Lin, E. Zupanic, H.J.P. van Midden, S. Sturm, E. Tchernychova, A. Prodan, J.C. Bennett, I.R. Mukhamedshin, O.V. Chernysheva, A.P. Menushenkov, V.B. Loginov, B.A. Loginov, A.N. Titov, M. Abdel-Hafiez, NbS3: A unique quasi-one-dimensional conductor with three charge density wave transitions, Physical Review B, 95 (2017) 035110.[10] A.B. Odobescu, A.A. Maizlakh, N.I. Fedotov, S.V. Zaitsev-Zotov, Electronic correlation effects and Coulomb gap in the Si(111)-(root 3 x root 3)-Sn surface, Physical Review B, 95 (2017) 195151.[11] N.I. Fedotov, S.V. Zaitsev-Zotov, Experimental search for one-dimensional edge states at surface steps of the topological insulator Bi2Se3: Distinguishing between effects and artifacts, Physical Review B, 95 (2017) 155403.[12] N.I. Fedotov, S.V. Zaitsev-Zotov, Energy Gap in Tunneling Spectroscopy: Effect of the Chemical Potential Shift, Jetp Letters, 104 (2016) 800-805. |