

Название работы: Теоретическое исследование молекулярных систем для поиска Новой физики и проверки теорий фундаментальных взаимодействий

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Список статей выдвигаемого цикла работ:

1. L.V. Skripnikov, "Combined 4-component and relativistic pseudopotential study of ThO for the electron electric dipole moment search", J. Chem. Phys. **145**(21) 214301 (2016).

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Квартиль: Q1

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3. L.V. Skripnikov, A.V. Titov, "LCAO-based theoretical study of PbTiO_3 crystal to search for parity and time reversal violating interaction in solids", J. Chem. Phys., **145**, 054115 (2016).

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4. L.V. Skripnikov, S. Schmidt, J. Ullmann, C. Geppert, F. Kraus, B. Kresse, W. Nörtershäuser, A.F. Privalov, B. Scheibe, V.M. Shabaev, M. Vogel, A.V. Volotka "New nuclear magnetic moment of ^{209}Bi : Resolving the bismuth hyperfine puzzle", Phys. Rev. Lett., **120**, 093001 (2018).

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8. W. Nörtershäuser, J. Ullmann, L.V. Skripnikov, Z. Andelkovic, C. Brandau, A. Dax, W. Geithner, C. Geppert, C. Gorges, M. Hammen, V. Hannen, S. Kaufmann, K. König, F. Kraus, B. Kresse, Y.A. Litvinov, M. Lochmann, B. Maaß, J. Meisner, T. Murböck, A. F. Privalov, R. Sánchez, B. Scheibe, M. Schmidt, S. Schmidt, V.M. Shabaev, M. Steck, T. Stöhlker, R.C. Thompson, C. Trageser, M. Vogel, J. Vollbrecht, A.V. Volotka, C. Weinheimer, "The hyperfine puzzle of strong-field bound-state QED", *Hyperfine Interact*, **240**, 51 (2019).

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12. A.N. Petrov, L.V. Skripnikov, A.V. Titov, "Zeeman interaction in $^3\Delta_1$ state of HfF^{+} to search for the electron electric-dipole-moment", *Phys. Rev. A*, **96**, 022508 (2017)

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