

J. Phys. B Special Issue on Few Body Physics with Cold Atoms

List of topics covered

1. Efimov Effect (theory and new experiments)
2. Few-body problems under new circumstances (dipolar interaction, spin-orbit coupling, low-dimension, new geometry et al)
3. Few-body problems in new system (Rydberg atoms, photons et.al.)
4. From few- to many-body
5. Techniques to treat few-body problems

Guest Editors

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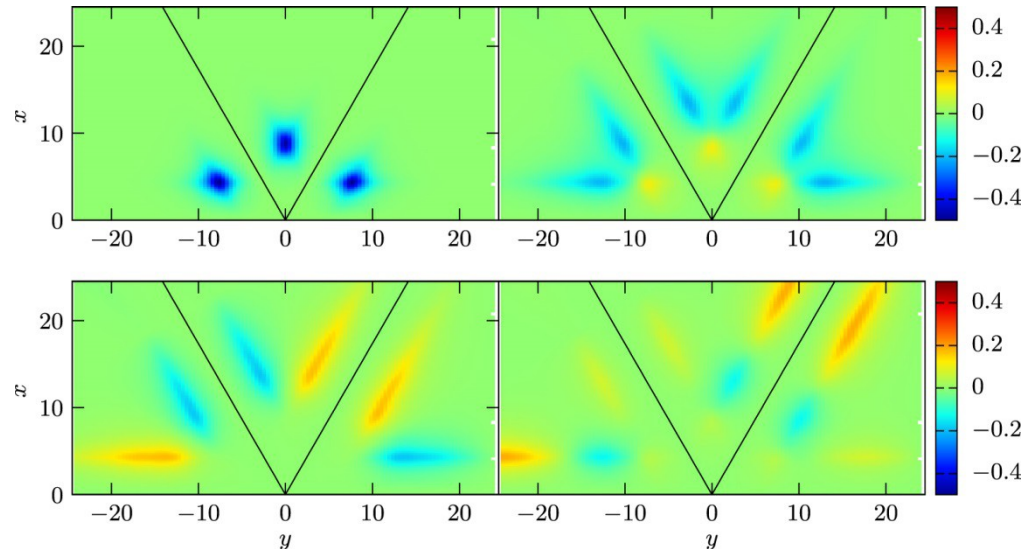


Figure showing Wave functions of the four lowest states of three dipoles on a helix shown as contours - J K Pedersen *et al* 2016 *J. Phys. B: At. Mol. Opt. Phys.* **49** 024002

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Read the papers: http://iopscience.iop.org/0953-4075/focus/Special_issue_on_few_body_physics_with_cold_atoms

- [Resonant quantum dynamics of few ultracold bosons in periodically driven finite lattices](#) by S I Mistakidis, T Wulf, A Negretti and P Schmelcher
- [Geometrical structure of helium triatomic systems: comparison with the neon trimer](#) by Hiroya Suno
- [Four-body long-range interactions between ultracold weakly-bound diatomic molecules](#) by M Lepers, G Quéméner, E Luc-Koenig and O Dulieu
- [Quantum few-body bound states of dipolar particles in a helical geometry](#) by J K Pedersen, D V Fedorov, A S Jensen and N T Zinner
- [Scattering of universal fermionic clusters in the resonating group method](#) by Pascal Naidon, Shimpei Endo and Antonio M García-García (Open Access)
- [Universal few-body physics in resonantly interacting spinor condensates](#) by V E Colussi, Chris H Greene and J P D'Incao
- [Exact two-body solutions and quantum defect theory of two-dimensional dipolar quantum gas](#) by Jianwen Jie and Ran Qi

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