

Accepted Manuscript

Ground state of an exciton in a three-dimensional parabolic quantum dot: convergent perturbative calculation

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PII: S0375-9601(17)31098-8
DOI: <https://doi.org/10.1016/j.physleta.2017.11.001>
Reference: PLA 24817

To appear in: *Physics Letters A*

Received date: 11 October 2017
Revised date: 1 November 2017
Accepted date: 2 November 2017

Please cite this article in press as: A. Galiautdinov, Ground state of an exciton in a three-dimensional parabolic quantum dot: convergent perturbative calculation, *Phys. Lett. A* (2017), <https://doi.org/10.1016/j.physleta.2017.11.001>

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Highlights

- Convergent calculation of excitonic ground state in a quantum dot is performed.
- The method does not require the full solution to the unperturbed problem.
- The approach works well even in the regime of strong coupling.

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