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# Excitons In Low Dimensional Semiconductors Theory Numerical Methods Applications Springer Series In Solid State Sciences

**excitons - types, energy transfer** - exciton. in organic materials two models are used: the band or wave model (low temperature, high crystalline order) and the hopping model (higher temperature, low crystalline order or amorphous state). energy transfer in the hopping limit is identical with energy migration. **numerical simulation of exciton dynamics in cu ultra low ...** - numerical simulation of exciton dynamics in cu<sub>2</sub>o at ultra low temperatures within a potential trap sunipa som, frank kieseling and heinrich stolz universität rostock, institut für physik, universitätsplatz 3, 18051 rostock, germany e-mail: sunipam@uni-rostock abstract. we have studied theoretically the relaxation behaviour of excitons in **10. excitons in bulk and two-dimensional semiconductors** - excitons in bulk and two-dimensional semiconductors ... inclusion of excitons in the optical properties of semiconductors. in this chapter, we will evaluate the optical response for 3d and 2d semiconductors. as will become apparent, excitonic effects in low-dimensional semiconductors are hugely enhanced. the reason is **title: observation of long-lived interlayer excitons in ...** - summation of isolated monolayers. this observation implies that at low temperature the quenched population of intralayer excitons is transferred to form interlayer excitons, which then relax mainly via radiative recombination. in contrast, at room temperature, a non-radiative **theory of anyon excitons: relation to excitons of n<sub>51/3</sub> ...** - copy of excitons and the low-energy physics of the fqhe. there is a striking difference in the quantum numbers of the low-energy anyon-excitons of then<sub>51/3</sub> and n<sub>52/3</sub> iql's. it is related to the difference in the energy spectra of the three-quasielectron complexes originating due to the differ- **reports control of exciton fluxes in an excitonic ...** - indirect excitons to cool to low temperatures is not necessary for optoelectronic applications, it makes them useful for studying the mesoscopics of bosons. devices based on excitons can only be operational at temperatures in which the excitons exist. this temperature range is determined to be roughly below  $e^2/kb$ , where  $x$  is the exciton- **exciton magnetotransport in two-dimensional systems: weak ...** - exciton magnetotransport in two-dimensional systems: weak-localization effects p. i. arseev ... intriguing low-temperature anomalies in exciton magnetotransport. in particular, they found that the exciton diffusion con- ... excitons at low densities as bose-particles. their internal **open scaling law for excitons in 2d perovskite quantum wells** - resonances arise from tightly bound excitons with both exciton reduced masses and binding energies decreasing, respectively, from 0.221m<sub>0</sub> to 0.186m<sub>0</sub> and from 470mev to 125mev with increasing thickness from  $n$  equals 1 to 5. based on this study we propose a general scaling law to determine the binding energy of excitons in perovskite quantum ... **composite boson description of a low density gas of excitons** - low densities in which a description of the system in terms of composite bosons seems more appropriate. considering a gas of polarized electrons (treated as spin up particles) and polarized holes (spin down particles), the ground state at low density will be constituted by a gas of excitons where one electron and **bright and dark excitons in semiconductor carbon nanotubes ...** - calculated energy splittings between the lowest dark and the bright excitons are relatively large (b0.1 ev), the dense excitonic manifold below the bright exciton allows for fast non-radiative relaxation leading to the rapid population of the lowest dark exciton. this rationalizes the low luminescence efficiency in nanotubes. 1. introduction **exciton-exciton and exciton-phonon interactions in an ...** - exciton-exciton and exciton-phonon interactions in an interfacial gaas quantum dot ensemble ... individual, localized excitons in the low excitation-density regime<sup>14</sup> reveals that multiple excitons can couple via numer-ous mechanisms, including the coulomb interaction, exchange **triplet exciton confinement in phosphorescent polymer light ...** - large singlet-triplet gap, which implies strong electron- electron interaction,<sup>20</sup> the triplet energies are usually low. for fluorescent dopant systems, singlet excitons can be more eas-ily confined. however, in order to confine triplet excitons in phosphorescent dopants, a host material with high triplet en- **excitons at high density in cuprous oxide and coupled ...** - excitons at high density in cuprous oxide and coupled quantum wells yingmei liu, phd university of pittsburgh, 2004 advisor: david wayne snoke there is a 40-year long history in the search for bose-einstein condensation (bec) of

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