

LIFETIME OF ELECTRON AND HOLE
QUASISTATIONARY STATES IN A SPHERICAL
NANOHETEROSYSTEM β -HgS/ β -CdS/ β -HgS

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S u m m a r y

For a complicated spherical nanoheterosystem, the S-matrix for electrons and holes is obtained by the method of effective masses in the one-band approximation, and the energies and lifetimes of quasistationary states for electrons and holes are calculated.