Национальный исследовательский ядерный университет «МИФИ», Институт нанотехнологий в электронике, спинтронике и фотонике

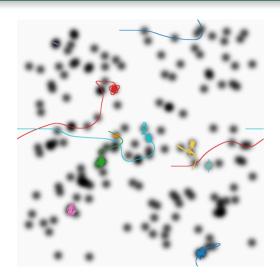
Квантовое моделирование транспорта квазидвумерных электронов в слое наноструктур



 $m{W.} \mathcal{A}$. $m{Cuбирмовский}, \ \kappa.\phi.$ -м.н., доцент соавторы: ...

18 ноября 2023 г.

Введение

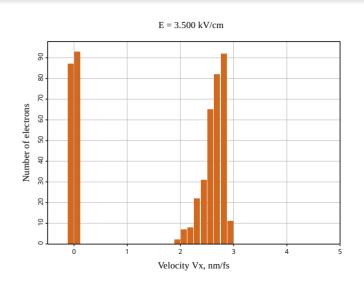


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Объект исследования

Second slide title

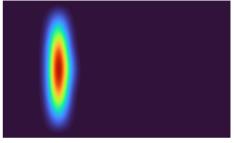
$$-rac{\hbar^2}{2m}\Delta\Psi + U(\vec{r})\Psi = E\Psi$$
 $\Delta = rac{\partial^2}{\partial x^2} + rac{\partial^2}{\partial y^2} + rac{\partial^2}{\partial z^2}$

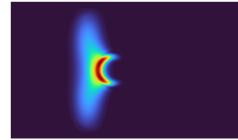


Third slide title

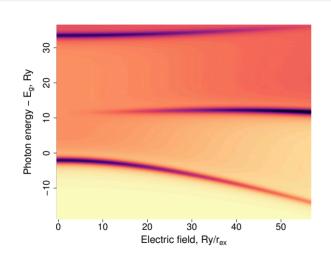
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$$-\frac{\hbar^2}{2m}\Delta\Psi + U(\vec{r})\Psi = E\Psi$$





Fourth slide title



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```
// From the pendulum program
fn runge_kutta(
    vars: &MyVec,
    pars: &Vec<f64>,
    rhs: &dvn Fn(&MvVec, &Vec<f64>) -> MvVec,
    dt: f64,
) -> MvVec {
    let rk_1 = rhs(vars, pars);
    let rk_2 = rhs(&vars.add(&rk_1.scale(dt / 2.0)), pars);
    let rk_3 = rhs(&vars.add(&rk_2.scale(dt / 2.0)), pars);
    let rk_4 = rhs(&vars.add(&rk_3.scale(dt)), pars);
    let vars new = vars
        .add(&rk_1.scale(dt / 6.0))
        .add(&rk_2.scale(dt / 3.0))
        .add(&rk_3.scale(dt / 3.0))
        .add(&rk_4.scale(dt / 6.0));
    vars_new
```

Заключение

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- Bullet point 2;
- Bullet point 3.

Список литературы

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Спасибо за внимание!



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