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Einstein's photoelectric equation  $h\nu = h\nu_0 + \frac{1}{2}mv^2$  (1.4) explained all aspects of photoelectric effect. In Eq. (1.4),  $h\nu$  is the energy of the incident photon,  $h\nu_0$

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Solved problems in quantum mechanics Mauro Moretti and Andrea Zanzi † Abstract This is a collection of solved problems in quantum mechanics. These exercises have been given to the students during the past examinations. 1 Email: [moretti@fe.infn.it](mailto:moretti@fe.infn.it) † E-mail: [andrea.zanzi@unife.it](mailto:andrea.zanzi@unife.it)

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$k_6 = n h k(0) j V j n(0) i^2 E(0) n E(0) k + O(3)$ ; so  $E_1 = E(0)_1 + 2V_2 12 E(0)_1 E(0)_2 + O(3)$ ;  $E_2 = E(0)_2 + 2V_2 12 E(0)_2 E(0)_1 + O(3)$ :

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