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students during the past ex-aminations. 1 *Email: moretti@fe.infn.it †E-mail: andrea.zan zi@unife.it

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and solve for the cn.

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n E (0) k + O(3); so E 1 = E (0) 1 + 2V2 12 E(0) 1 E (0) 2 + O(3); E 2 = E (0) 2 + 2V2 12 E(0) 2 E (0) 1 + O(3):

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Cryptographic problems that use factoring are excellent examples of problems that Page 39/46

can be solved with a quantum computer because both the input and output are each a single number. Note that the numbers used in the key are huge, so a significant amount of gubits are needed to calculate the result. A quantum Page 40/46

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