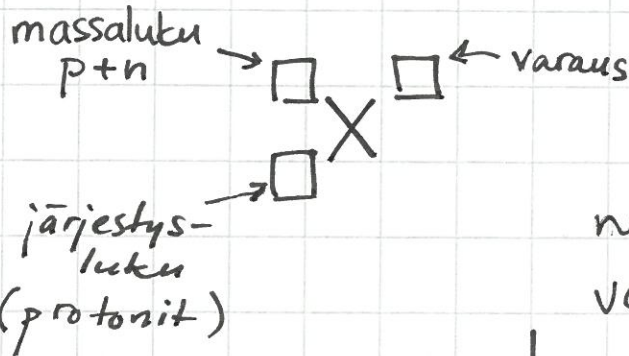
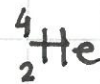
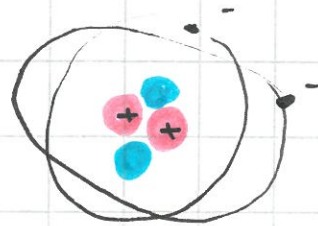


ATOMIN RAKENNE

elektronit \ominus } varaus
 massa- } protonit \oplus
 luku } neutronit



neutronien määrä voi vaihdella → isotoopit



N-14

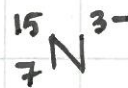
N-15

elektronit asettuvat elektronikuorille

K, L, M, ... tai 1, 2, 3...

$$2 \cdot n^2 \text{ elektronia}$$

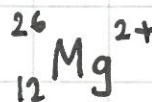
jos atomi luovuttaa tai vastaanottaa elektroneja, syntyy ioni



7 protonia

8 neutronia $15-7$

10 elektronia $7+3$



12 protonia

14 neutronia $26-12$

10 elektronia $12-2$

KAPPALE

3.1

tehtävät

3.1

3.2

3.3

3.5

3.6