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web complete the nuclear equation to find the atomic number of californium $^{242}_{96}\text{Cm} \rightarrow ^{242}_{94}\text{Pu} + ^4_2\text{He}$ by firing heavier particles such as carbon or boron ions at the target materials heavier elements can be synthesised

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web nuclear equations represent the reactants and products in radioactive decay nuclear fission or nuclear fusion instead of chemical equations where it shows the different number of elements is conserved in a reaction in a nuclear reaction the atomic mass and proton number are conserved