

Program 8a – alpha decay problems:

1.  ${}^X_{90}\text{Th} \rightarrow {}^4_2\alpha + {}^A_Z??$

2.  ${}^X_Z?? \rightarrow {}^4_2\alpha + {}^A_{88}\text{Ra}$

3.  ${}^X_{92}\text{U} \rightarrow {}^4_2\alpha + {}^A_Z??$

4.  ${}^X_Z?? \rightarrow {}^4_2\alpha + {}^A_{90}\text{Th}$

Program 8b – beta decay problems:

1.  ${}^X_6\text{C} \rightarrow {}^0_{-1}\beta + {}^A_Z??$

2.  ${}^X_Z?? \rightarrow {}^0_{-1}\beta + {}^A_7\text{N}$

3.  ${}^X_{43}\text{Tc} \rightarrow {}^0_{-1}\beta + {}^A_Z??$

4.  ${}^X_Z?? \rightarrow {}^0_{-1}\beta + {}^A_{44}\text{Ru}$

Program 8c – fission problems:

