

Announcements

To join clicker to class today
(Clickers with LCD display
join automatically):

- Turn on the Clicker (the red LED comes on).
- Push "Join" button followed by "20" followed by the "Send" button (switches to flashing green LED if successful).

- Deadline to sign up for e-mail discussion was Wednesday! It is required for the course. See web site
- On average class did well on Wednesday's Quiz. Answer key on web site.

- Monday will be finishing nuclear chemistry and review.
- First exam on Wednesday.
- Get handout for next weeks lab from web site and do prelab.

Review

- Radioactive decay
 - above band of stability undergo β -decay
 - below undergo e^- -capture or e^+ -emission, beyond undergo α -decay.
- Can get to Bi by n-capture and β -decay.
- Heavier than Bi, produced by rapid n-capture in supernovas.
- Common kinds of radioactive decay α and fission.

Chang 21.1

Chain Reaction

Chang
Fig. 21.8

Fission Reactor

Chang Fig. 21.10

Cyclotron

Chang Fig.
21.4

Geiger Counter

Chang Fig. 21.18