

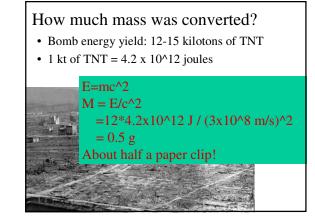
• The shadow of the moon falls on Earth as seen from the International Space Station, 230 miles above the planet, during a total solar eclipse at about 4:50 a.m. EST March 29. This digital photo was taken by the Expedition 12 crew, who are wrapping up a six-month mission on the ISS. Visible near the shadow are portions of Cyprus in the Mediterranean Sea and the coast of Turkey.

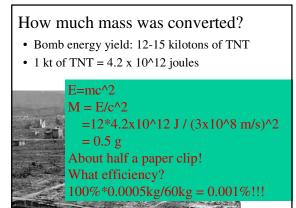


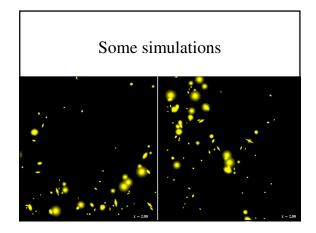
How much mass was converted?

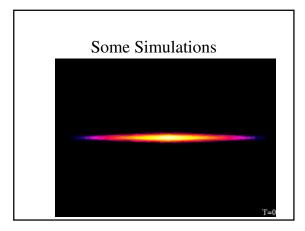
- Bomb energy yield: 12-15 kilotons of TNT
- 1 kt of TNT = 4.2×10^{12} joules











Review Ch. 21

What determines the type of galaxy?

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Initial Conditions
Interactions

What determines the type of galaxy?

- Initial Conditions
- Spin
 - density
- Interactions
 Galactic Collisions
 - Galactic Mergers
 - Stripping by intergalactic medium
 - inside a cluster

How is a galaxy formed?

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- Gradual gravitational collapse of a protogalactic cloud
- Disk forms in "normal" way...flattening from spin
- Where does Halo come from?

What are AGN? Quasars? Radio Galaxies?

What powers them?