Chepx nobble zbëzgn.

• 1934 г. Рриту Увикке системостическое изучение 1937, март $1^{col}SN$, авијет — 2^{col} . (4m τ /2003) дожее до $20\,\mathrm{m}\tau$ /2003

1941, Munkobakun (gla Tuna clepx Hobox)

SNI: широкий епектр этсенонных тими стандогртная рорма мини

SNII: uznyrenne bogopoga.

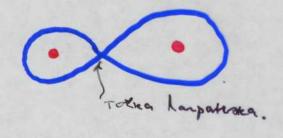
19712. Szacnemie (Kupmnep, OK)

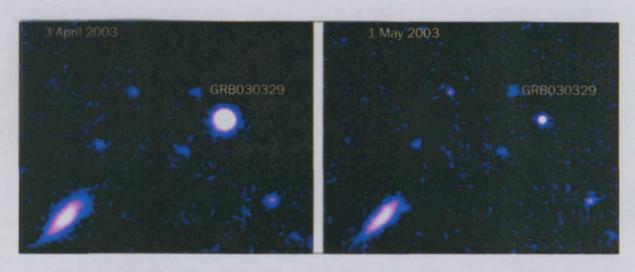
SNI: Servin Kapmik & glovinoù encreme >

okpeynd > M > Myangpocekap. > H3 ->

ineprobagenenne (bogopoga nei)

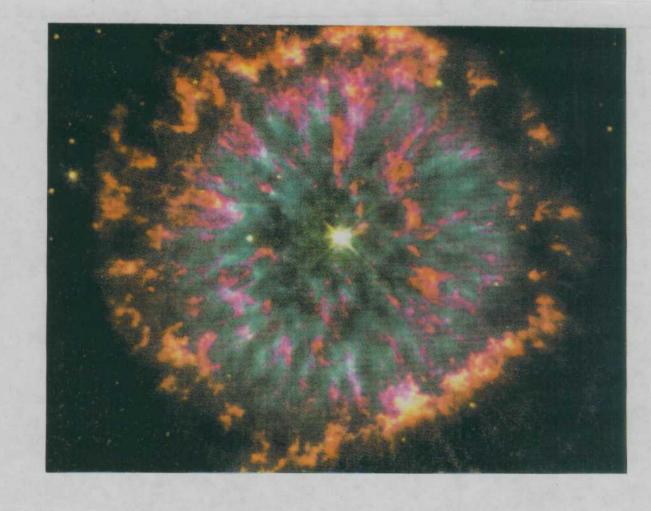
SNI: Kornoine yett papokou rdeth Macellohoù M7,8MG 3bezgot . Bremme enon Sonoith H2, + truzhu maro u ora octaéter lo obractu rge obpazobaraco.



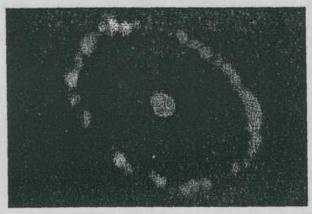


Images obtained at the 8.2 m VLT telescopes show the fading image of the optical afterglow of GRB030329, as seen on 3 April (four days after the GRB event) and 1 May 2003. (ESO.)





Monoskehule &N cobnano e honoskehulem rong Soro mirahta Sanduleak-69 202 hoche benommen on ucrez.



Note: This image, taken in the forbidden line of doubly ionised oxygen [OIII], was made with the Faint Object Camera of the Hubble Space Telescope.

Source: Panagia et al. (1991).

\$NII: 24 pel. 1987 roga (5MO)

HABBLE + (Kamiokande u IMB)

zorperinctphipobako NV = 20 cod; EV = 6+40 M → B

B Teretile Δt = 12 cek. ⇒ MV < 20 → B

Ontwerkar benninka δοικαι zaperinctphipobama hozginee!

MKTekarbnocis ynang β 2 paga za 77 gm², 210

coma - cl c brene kem nompachagai nzotona Co.

1961, Papikey οδωνικι exp c Tuz = 77 gm².

S6
$$N_i$$
 $\xrightarrow{\beta^+}$ S6 C_0 $\xrightarrow{\beta^+}$ S6 F_e
 $T_{\nu_{\lambda}} = 6.1 \text{ g}$
 $T_{\nu_{\lambda}} = 77.1 \text{ g}$
 $T_{\nu_{\lambda}} = 3.5 \text{ MB} \Rightarrow \text{ kaupel of one kin}$

Foremor Monerroutobo Strake

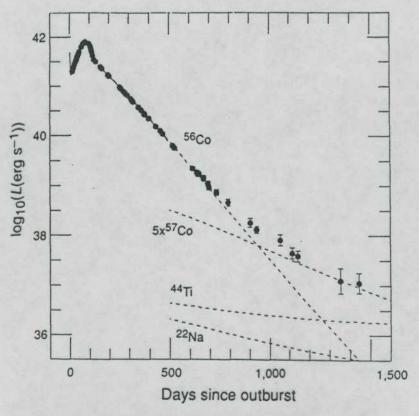


Figure 23.21. The light curve of SN1987A presented by Chevalier [246]. The ordinate is the bolometric luminosity of the supernova meaning its integrated luminosity in the ultraviolet, optical and infrared wavebands, during the first five years. The energy deposited by radioactive nuclides (broken lines) is based upon the following initial masses: $0.075M_{\odot}$ of 56 Ni (and subsequently 56 Co), 10^{-4} M_{\odot} of 44 Ti, 2×10^{-6} M_{\odot} of 22 Na and 0.009 M_{\odot} of 57 Co, the last being five times the value expected from the solar ratio of 56 Fe.

Li lug =
$$10^{42} (P^2/c)$$
 ~ Li Hourielle responsition (W= 10^{10}).

We, $\approx 10^{46} D_{PR} / 12c \approx 10^{45} B_{T}$.

Wyndun $\approx 1 r_{BT} \times 10^{3} \times 10 \approx 10^{13} B_{T}$
 $t = \frac{W l_{m_2}}{Wynle} = \frac{10^{42}}{10^{13}} = \frac{29}{10^{13}} = \frac{21}{10^{13}} = \frac{21}{10^{13}} = \frac{21}{10^{13}} = \frac{10^{12}}{10^{13}} = \frac{10^{13}}{10^{13}} = \frac{10^{13}}{10^{13}}$