

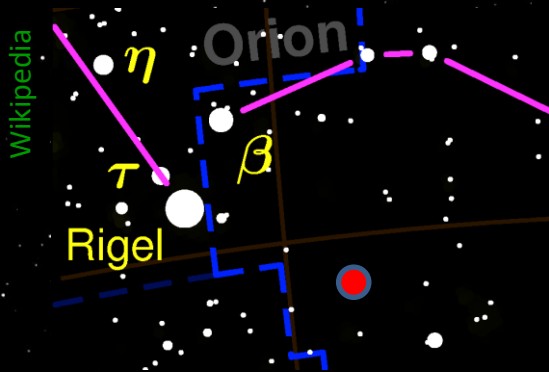
Novae und Supernovae im Teleobjektiv

oder

Wie messe ich die Halbwertszeit von ^{56}Co ?

1) KT Eri

50mm an Canon 500D
15° x 10°
f/4, 150 sec, iso 800, 7x
IDAS-Filter



N

T.Hebbeker
2009-12-14

Rigel

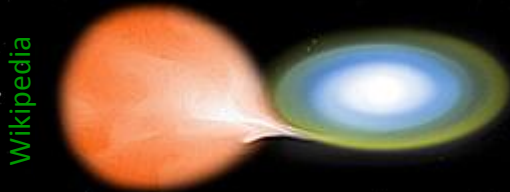


Nova
↓

~ 10°



Nova = „neuer Stern“



Wikipedia

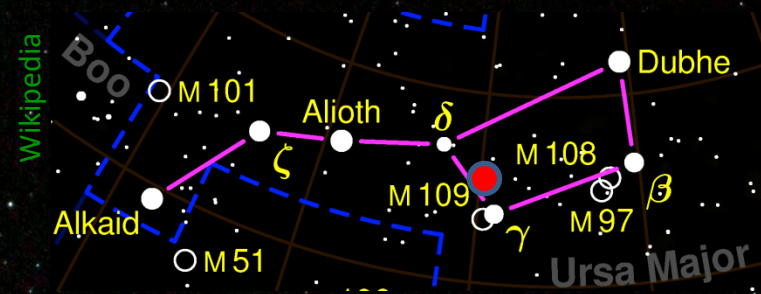
Helligkeit = Sonne * 100'000

↓
Milchstraße, Abstand 20'000 Lj
KT Eri = N Eri 2009
25.11.2009
Helligkeit max 8m.0

2) SN2011by

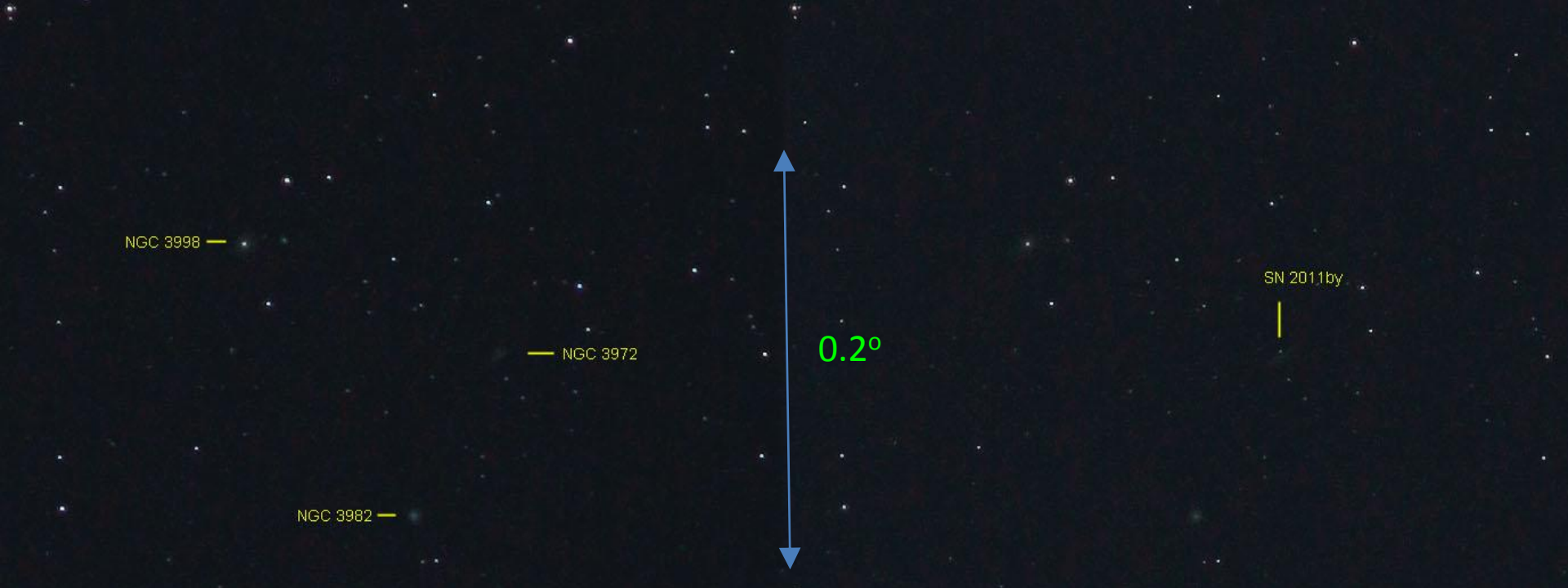
N

200mm an Canon 500D
4° x 3°
f/4, 240 sec, iso 400
IDAS-Filter



γ UMa

M109



NGC 3972 Abstand 40 MLj

SN2011by

Typ Ia

26.04.2011

Helligkeit max ~12m.7



amandabauer.blogspot.com

TYPE IA (THERMONUCLEAR) SUPERNOVA

(NOT TO SCALE)



super-critical
accretion onto a
white dwarf star

thermonuclear
supernova
explosion

supernova
remnant without
a neutron star

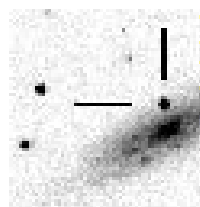
Chandrasekhar-Masse = 1.4 Sonnenmassen

Helligkeit = Nova * 100'000

25.04.2011 (!)

Supernovae 2011by in NGC 3972

This page is devoted to information on [Supernova 2011by in NGC 3972](#). Basic information on this SN, including the last reported brightness, on this Supernova can be found on the [main page](#). Information on the original web pages for many of these images can be found on the [links](#) web page.



Discovered by Zhangwei Jin and Xing Gao (China). This one a Type Ia found young. We have a [Photometry reference image](#) made by Odd Trondal. This supernova is in the [Constellation Ursa Major](#).

Web pages dedicated to this SN.

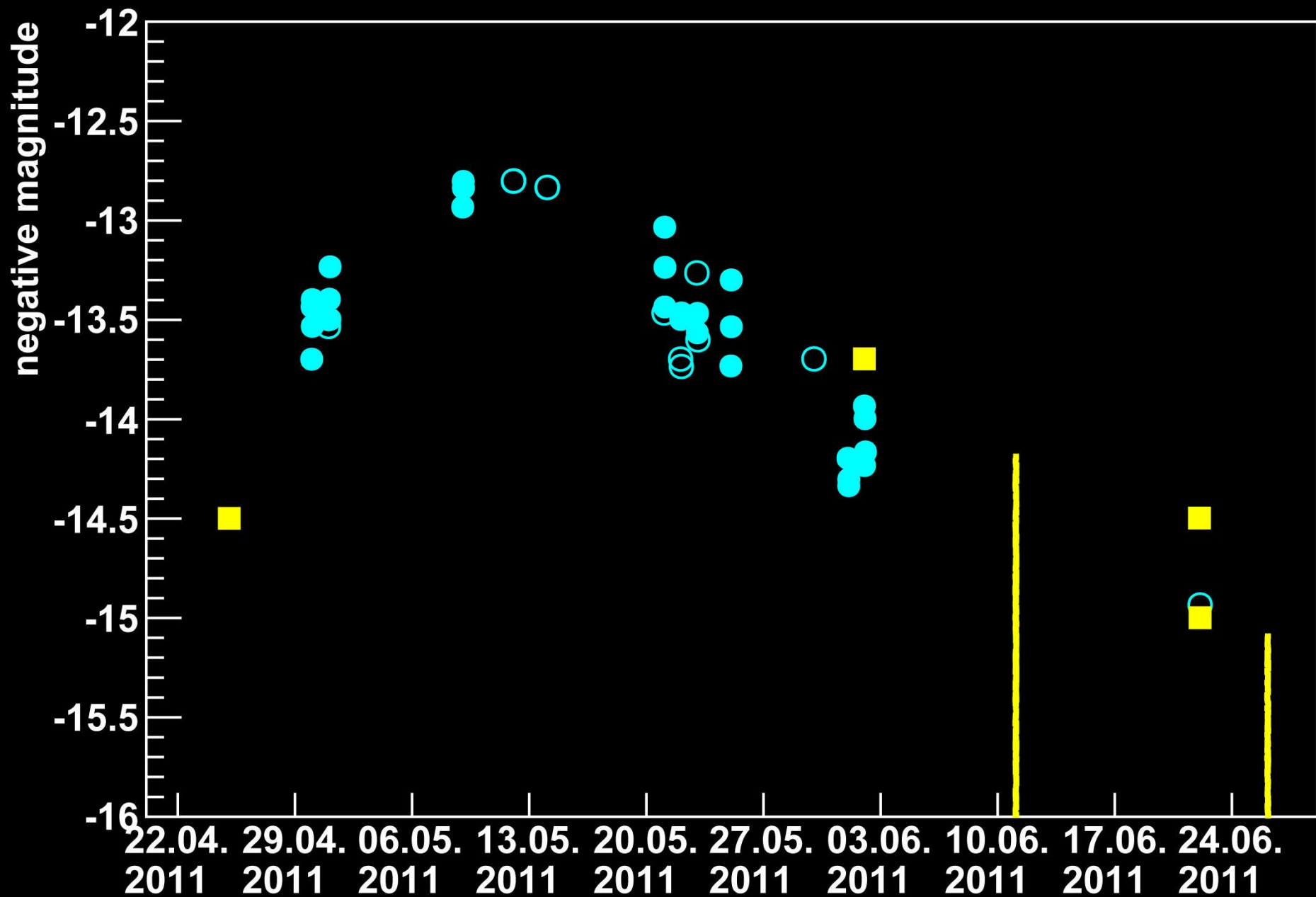
- [AAVSO Alert Notice 438](#)
- [AAVSO Alert Notice 439](#)
- [\[vsnet-campaign-sn 1055\] nearby SN Ia 2011by](#)
- [\[vsnet-campaign-sn 1058\] nearby SN Ia 2011by](#)
- [\[vsnet-campaign-sn 1059\] SN2011by spectrum \(May 11.8\)](#)
- Polish Society of Amateur Astronomers [2011by page](#)

The following is a list of images of this SN, in chronological order. Click on the name in the "Image Credit" column to see the image. Times and dates are in UT unless otherwise noted. If you know of any others, [please tell me!](#)

| Image Credit | Date | Mag | Filter | Comments |
|-------------------------------------------|----------------|------|--------|--------------|
| Thomas Hebbeker | 2011/04/25.947 | | C | Prediscovery |
| Zhangwei Jin and Xing Gao | 2011/04/26.823 | 14.2 | C | Discovery |

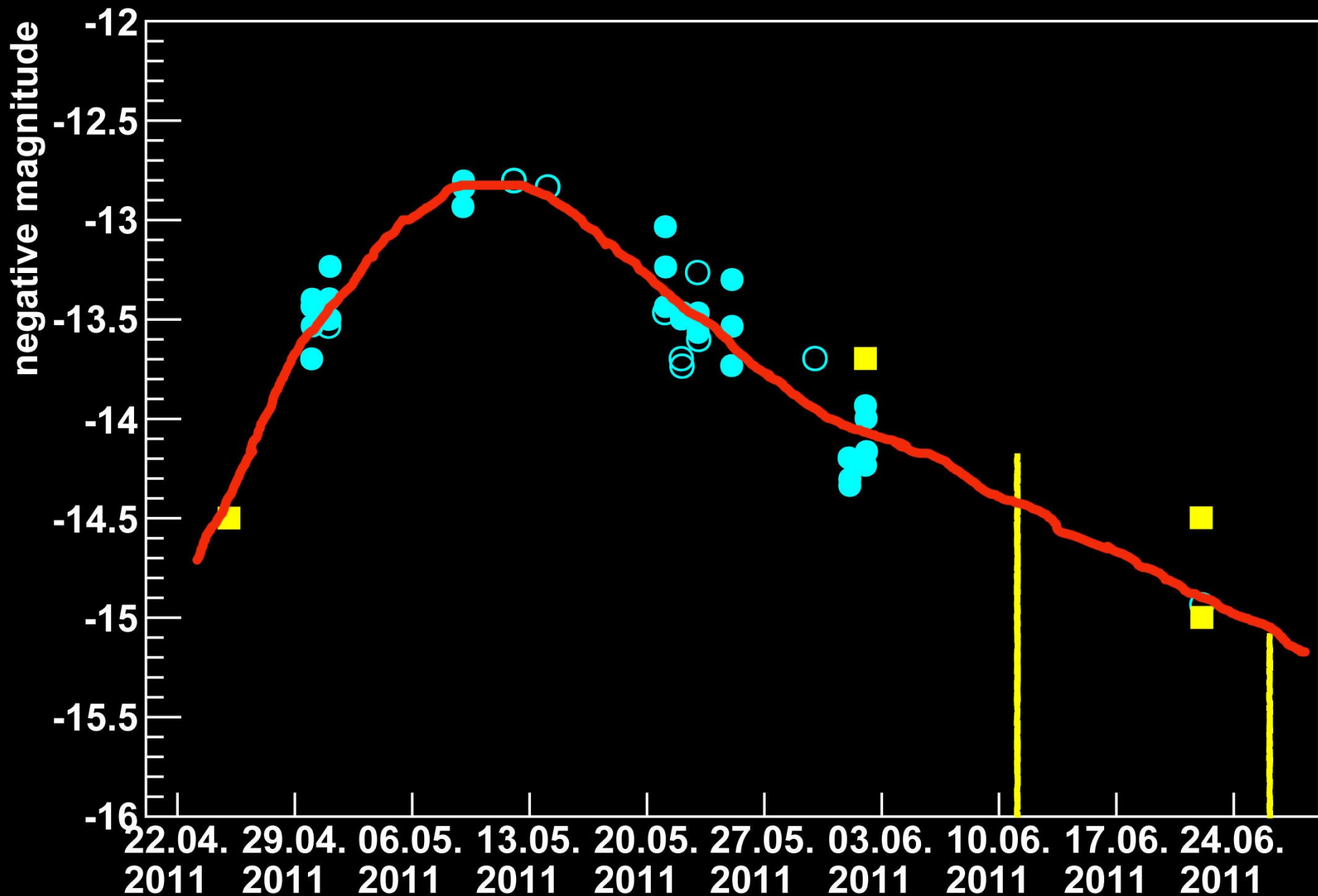
SN2011by

T. Hebbeker 2011



SN2011by

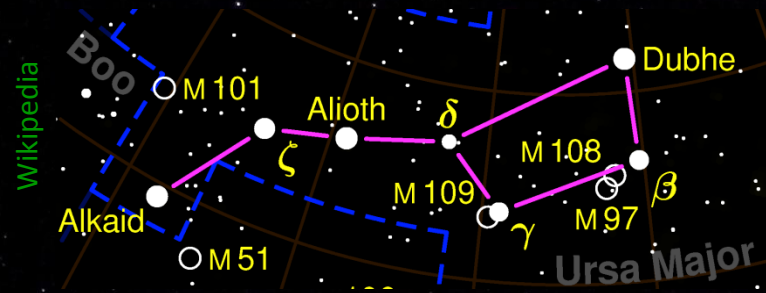
T. Hebbeker 2011



3) SN2011dh

N

200mm an Canon 500D
4° x 3°
f/4, 240 sec, iso 400
IDAS-Filter



25.04.2011

28.06.2011



M51 Abstand 24 MLj

SN2011dh

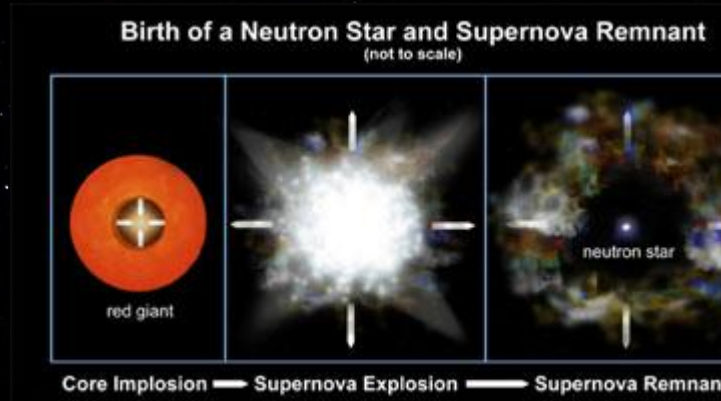
Typ II

31.05.2011

Helligkeit max ~12m.5



amandabauer.blogspot.com



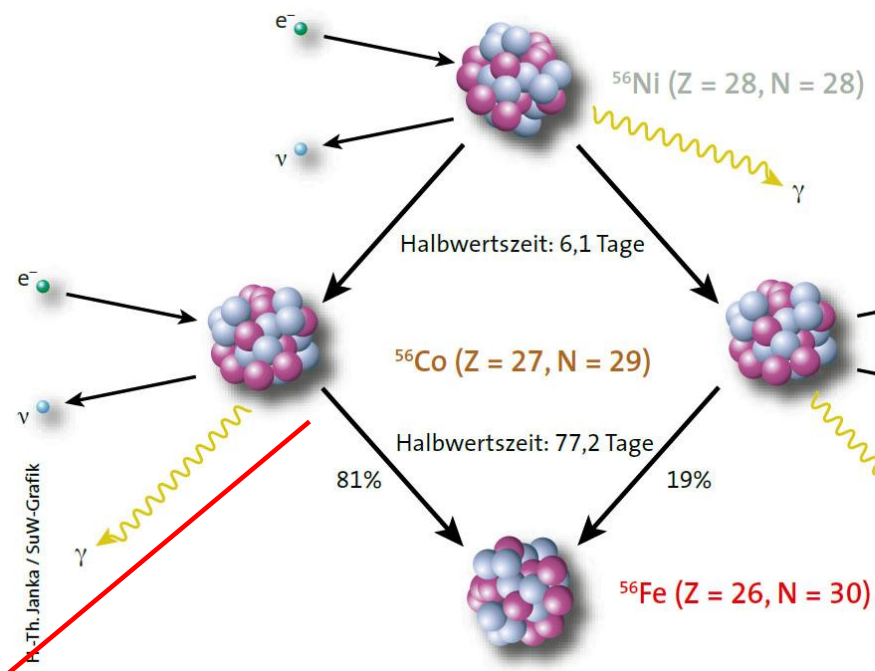
Helligkeit = Nova * 100'000



Wikipedia

Kobalt ???

chemwiki.ucdavis.edu



mit Streckungsfaktor
Phillips-Beziehung a

H.-Th. Janka / SuW-Grafik

^{56}Co

Saul Perlmutter / UC Berkeley / The Super Project / SuW-Grafik

