

Edge of the Universe

Englisch

Deutsch

Filmzitat als Anwendungsbeispiel

Milky Way

Milchstrasse

the Milky Way is a shimmering band spread over the whole night sky

telescope

Teleskop

modern telescopes capture a 100 thousand times more light than Galileo's

outer space

ferner Weltraum

they can obtain images of outer space

state-of-the-art-technology

neuste Technik

remnant

Überrest

this giant gas cloud is the remnant of a star explosion

remote

entfernt

this remote milky way is a giant spiral formed by stars

radiation

Strahlung

telescopes on earth can capture only a small amount of radiation that is emitted by celestial bodies

wavelength

Wellenlänge

all the colours of the rainbow have their own wavelength

range

Bereich

the whole range is called the electromagnetic spectrum

data (pl)

Daten

space telescopes have sensors that deliver data depending on the wavelength they detect

flash

Blitz

these flashes result from violent supernova explosions

(to) examine

untersuchen

they examine the long section of the spectrum

nebulae

Nebel

with this infrared telescope it's possible to look into cosmic dust clouds and nebulae

rocket

Rakete

both telescopes barely fit into a regular rocket

star constellation

Sternbild

the orion cloud is part of the orion star constellation you can see with the naked eye

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birth process	Entstehungsprozess	it's the birth process of stars
(to) implode	implodieren	these cold clouds implode under their own weight
prototype	Prototyp	for an infrared telescope it's warm enough to see these prototype stars
(to) ignite	zünden	when finally the nuclear fusion ignites, a new star is born, a dazzling sun
big dipper	großer Schöpflöffel (Im Deutschen: Sternbild "Großer Wagen")	the big dipper consists of seven stars
red giant	roter Riese	a red giant is having used up all of its fuel and it's approaching the end of its life
nuclear fusion	Kernfusion	at this state the nuclear fusion moves to the outer layers – the star expands to become a red giant
matter	Materie	in the first 300.000 years after the big bang space was full of hot matter, a hot particle soup
cosmic background radiation	kosmische Hintergrundstrahlung	this ancient radiation is called cosmic background radiation
light waves	Lichtwellen	the light waves expanded, they became longer, so long, that they became invisible to us
ground station	Bodenstation	the line monitors radio contact between the satellites in space and the ground station
neighbouring planet	Nachbarplanet	a mission to our neighbouring planet Mars is a giant effort
avoidance manoeuvre	Ausweichmanöver	it's taking too long for an effective avoidance manoeuvre
robot	Roboter	so all we send is a general direction and schedule and the robot has to cope with the details