

Cosmic Evolution

Englisch	Deutsch	Zitat als Anwendungsbeispiel
dusk	hier: Abenddämmerung	when dusk stretches across the sky
constellation	hier: Sternbild	the most famous of the constelations in the northern hemispere shines high in the sky
light year	hier: Lichtjahr	it is located at some 37 light years from Earth
square	hier: Viereck, Quadrat	the great Square of Pegasus comes on stage
fuel	hier: Brennstoff	this is an enormous star - when ist fuel is exhausted
equinox	Tag- und Nachtgleiche	on this equinox the Sun rises precisely on the East Cardinal Point
solstice	Sonnenwende	solstice, which comes from the Latin words Sol and Stare
trajectory	hier: Sonnenbahn	the Sun's trajectory gets shorter
oblique	hier: schräg (einfallend)	ist rays are so oblique that they scarcely heat the Earth
viscous	hier: zähflüssig	the gases released by the viscous surface of the young planet
to trigger	hier: verursachen	the sea...and small submarine volcanoes triggered a multitude of chemical reactions
carbon hydrocarbon amino acids	Kohlenstoff Kohlenwasserstoff Aminosäuren	many of these molecules contained carbon, hydrocarbons...and also the first amino acids
photosynthesis	Fotosythese	one of these organisms acquired the capacity to use the Sun's energy through photosynthesis
oxygen	Sauerstoff	a chemical reaction which releases a toxic and corrosive gas: oxygen
ozone layer	Ozonschicht	the concentration of oxygen steadily increased, leading to the appearance of the ozone layer

ultraviolet radiation	ultraviolette Strahlung	the ozone layer...has protected the surface of our planet from the Sun's ultraviolet radiation
nucleus	hier: Zellkern	cells appeared with genetic material enclosed in a nucleus
diameter	Durchmesser	an asteroid measuring some 10 kilometres in diameter
mammal	Säugetier	the era of the dinosaurs had ended, whilst that of the mammals had begun
carbon	Kohlenstoff	Life on Earth is possible thanks to Carbon
diversity	hier: Vielfalt	how could this sterile, elementary mixture give rise to the extraordinary diversity surrounding us today
Pleiades Cluster	hier: Sternhaufen der Plejaden	the Pleiades Cluster also attracts our attention
speed of light	hier: Lichtgeschwindigkeit	resulting from the enormous distances and the limitations of the speed of light
to synthesize	hier: herstellen, aufbauen	the amount of energy...is sufficient to synthesize tons of gold, lead, uranium and other elements that are
gravitational attraction	hier: Schwerkraft	black hole...so dense that not even the light can escape from its gravitational attraction
ancestor	hier: Vorfahr	all living beings descend from a common ancestor
flue virus	Grippevirus	the flue virus, an extremely simple virus which is constantly evolving
vaccine	hier: Impfstoff	obliging us to create a new vaccine each year
to perceive	hier: wahrnehmen	in our brief existence we have scarcely time to perceive the magnitude of the changes around us