

## Time Travel

### Englisch

### Deutsch

### Zitat als Anwendungsbeispiel

to forge

hier: formen

this heat forged the basic building blocks of the world

dense gas

dichtes Gas

a star is a sphere of dense gas

to release

hier: freisetzen

this nuclear fusion releases huge amounts of energy

to take shape

Form annehmen

a flat, rotating disk is taking shape

spiral pattern

hier: Spiralmuster

interactions of gas and stars form the spiral pattern of the Milky Way's arms

hydrogen gas

Wasserstoffgas

compact cloud parts mainly consist of hydrogen gas

matter

hier: Materie

matter is streaming towards the centre

gap

hier: Lücke

a gap is opening as the largest planet of the solar system forms: Jupiter

stellar wind

hier: Sternenwind

the surrounding gas is blown away by the stellar wind of the young sun

debris

hier: Bruchstücke

most of the debris is falling back to earth, it attains its final size

enigmatic

rätselhaft

the most enigmatic step of our story is about to happen: the origin of life

precursor

Vorgänger

so the precursors of life are formed, the amino acids and nucleic acids

amino acid

Aminosäure

nucleic acid

Nucleinsäure

blueprint

hier: Blaupause, Vorlage

thus the RNA becomes a blueprint

random change	hier: zufällige Änderung	by random changes in the DNA some cells acquire new useful properties
side-effect oxygen	hier: Nebeneffekt Sauerstoff	as a side-effect a new gas is released in the process: oxygen
species	Arten	countless species emerge in a very short time
mammal	Säugetier	the first mammals at this time are living in the shadow of the dinosaurs
rodent	Nagetier	most are small rodents
asteroid belt	Asteroidengürtel	between the orbits of Mars and Jupiter lies the asteroid belt
to enshroud	hier: einhüllen	ash enshrouds the Earth
advantageous	vorteilhaft	it is now more advantageous to walk upright on two legs
tool	hier: Werkzeug	prehistoric man, homo habilis, invents the first simple stone tools
diversity	Vielfalt	large telescopes show us the diversity of the universe