

# NUCLEAR FUSION

Nuclear fusion energy is the energy extracted by the fusion of atoms, such as hydrogen and helium, which have light nuclei and isotopes.

This reaction is called a fusion reaction.

Characteristics of Nuclear fusion

- ① Abundant resources
- ② Inherent safety
- ③ High environmental conservation

## IMPRESSION

We were interested in how to use nuclear fusion Energy in the future.

## SOURCE

National Institutes for Quantum and Radiological Science and Technology  
material date

# Nuclear fusion Energy




HIROSAKI MINAMI  
HIGH SCHOOL  
14 HR GROUP 2




# ARTIFICIAL SUN




The international Thermo nuclear Experimental Reactor (ITER), which aims at the practical application of fusion energy, is called an "artificial sun" and uses a device called a tokamak type to control ultra-high temperature plasma using the force of a magnetic field. Finally, we use the energy released during the fusion reaction. By 2050, we would like to realize the practical application of fusion energy.




Hi,  
Do you know how to make an artificial sun?




Oh, I don't know.  
Please tell me.



It is made with nuclear fusion energy.



Oh, I see.  
By the way, What is nuclear fusion?



If you want to know about nuclear fusion,  
Please see the flip side.  
If you want to know about the artificial sun,  
Please go to next page.