

Two types of water have been found

Slide by Neil Goalby. Available from rsc.li/3QhgB5A

Water breaks many of the rules that govern the liquid state. Now, scientists may have found evidence that there are two types of liquid water. These two types become distinct only at temperatures well below freezing point, where it's all but impossible to keep water liquid.

The team used laser pulses to rapidly melt ice at temperatures and pressures close to those at which the two liquid phases of water are thought to exist. One of these phases is denser than ordinary water, because it lacks many of the intermolecular forces that hold water molecules apart.



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Solid, liquid... or something in between? Water may have more than one liquid state

Questions

1. Give a property of water that is unusual for liquids.
2. What type of bond is found between atoms in water?
3. Draw a dot and cross diagram of a water molecule.