

# The Nonmonotone Motion

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The Nonmonotone Motion is that the motion of matter is not monotonicity to the sufficient distance.

In nature,the motion of any substance or object is not monotone and is nonmonotonic. The movement of any substance or object is not linear to the sufficient distance. To the sufficient distance the movement of any substance or object exists in many or infinite directions, but there is a obvious trend in one direction. To the sufficient distance the movement of any substance or object is not monotone but repetitive. The repetitive motion is that the substance or object move to the obvious trend direction for a certain distance and then move to the opposite direction for another distance, but the distance of the opposite direction is shorter than the distance of the obvious trend direction, so the substance or object generally moves to the obvious trend direction. In fact, the uniform or variable rectilinear motion is the repetitive movement.In fact,the essence of wave is the repetitive motion(nonmonotone motion) whatever mechanical wave or electromagnetic wave and so on. Because the motion of any substance or object is not monotone,the wavelength theorem of De Broglie is correct.

For example; the motion of the linear light in vacuum, from point A to point B and the distance from A to B is 1 meter. Then the movement of the light from point A to point B is the repetitive motion (nonmonotone motion). So the light move not only to the direction from A to B but also the direction from B to A. But the comprehensive effect of repetitive movement moves to the direction from A to B. So the light will eventually moves from point A to point B.