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https://www.100test.com/kao_ti2020/534/2021_2022_2009_E5_B9_B4_E8_80_83_c73_534395.htm The blue haze represents X-ray emissions from hot gas between galaxies in the cluster MS105403218 billion light-years away . What confines the gas within the cluster? Some propose that it ' s dark matter . If gravity works the way it ' s supposed to , then most of the universe ' s mass is invisible , existing as what ' s come to be known as “ dark matter .

What ' s the nature of that missing mass , and what does it all mean for the fate of universe? The questions lead to some of the greatest mysteries of modern physics . Scientists haven ' t even figured out yet how much total mass the universe contains--a no-less- weighty question that is linked to the dark matter debate . Indeed , the nature and amount of dark matter determines whether the universe itself is fated to collapse back upon itself , expand into virtual nothingness or reach a state of equilibrium .

Right now, the best bet is that there isn ' t enough matter for gravity to overcome the Big Bang , meaning that the universe ' s current expansion will continue forever until there ' s practically nothing left . In fact , some scientists are puzzling over data indicating that the expansion is accelerating . For a long time , cosmologists worked under the assumption that there is enough matter to bring the universe into an eventual balance . Cosmologists call this balance point the critical density , and they use a variable called Ω to describe the proportion of the universe ' s actual

density to the critical density . If Ω equals one , the universe is in balance and all is well for most theoretical physicists . But if Ω is much less than one as appears to be the case--then the theoreticians have a lot of explaining to do . In fact , it may indicate that we don ' t fully understand how gravity works after all . That ' s why some physicists hope there ' s enough undetected dark matter to fill the gap . Figuring out the total mass of the universe may sound like an imponderable question--but surprisingly , Lawrence and other researchers hope to come up with some conclusive answers in the next decade or so . Their strategy is to measure the uneven afterglow of the Big Bang ' s aftermath , known as the cosmic background radiation . A satellite called the Cosmic Background Explorer has made a good start toward charting that afterglow . Future spacecraft such as NASA ' s Microwave Anisotropy Probe and the European Space Agency ' s Planck mission will map the early universe ' s signature in even greater detail . By closely comparing the density differences in the background radiation , astronomers can come up with an answer for the mass question and gain some new hints as to the nature of dark matter . " I think in 10 or 15 years we will know pretty much for sure whether the universe will expand forever , collapse back on itself or just drift , " said Lawrence , who is a principal investigator for one of the Planck research teams . " That ' s pretty exciting . That ' s a question that didn ' t exist 100 years ago . [488 words] 1

. According to this passage , the universe_____ . A . is unlikely to collapse back upon itself B . is still full of mysteries to be revealed

by us C . will continue to expand until nothing exists in it D . will reach a state of equilibrium sooner or later 2 . Some cosmologists assume that_____ . A . the universe is made of dark matter B . the dark matter in the universe is missing C . gravity may not work the way it ' s supposed to D . gravity is a concept that didn ' t exist 100 years ago 3 . The variable " omega " used by cosmologists_____ . A . tends to be one B . is usually much less than one C . refers to the balance point of the universe D . refers to the actual density of the universe 4 . Cosmologists the total mass of the universe_____ . A . have figured out B . have little possibility to know C . are too ignorant of the nature of dark matter to estimate D . are expected to find some way to figure out 5 . It is pointed out in the passage that has contributed to the study of the Big Ban9 ' s aftermath_____ . A . the theory of gravity B . the Cosmic Background Explorer C . NASA ' s Microwave Anisotropy Probe D . the European Space Agency ' s Planck mission

超纲词汇
Afterglow n . 余辉 Aftermath n . 结果 , 后果 Anisotropy n . [物] 各向异性 Equilibrium n . 平衡 , 均衡 , 安静 cosmologist n . 宇宙学家 Haze n . 薄雾 Imponderable 不可估计的 100Test 下载频道开通 , 各类考试题目直接下载。详细请访问
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