**Summary**

The text under consideration is entitled Gravitational waves.The text is devoted to the discovery of gravitational waves and their research. The text begins with Albert Einstein's theory of the existence of gravitational waveshas been finally proved not long ago. The author touches upon on the research of gravitational waves and the creation of supersensitive equipment to measure them. The author introduce the notice of existence gravitational waves and defines them. The text is divided between the first discoveries of gravitational waves and the scientific breakthrough in understanding the universe. The text concludes with the worldwide recognition of the title breakthrough of the Year for gravitational wave research.