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Error analysis of Ia supernova and query on cosmic dark energy

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Query on Accelerating Expansion of the Universe I: We have found some serious faults in error analysis of SNIa observations, which led to the idea of accelerating expansion of the Universe. Redoing the same error analysis of SNIa, by our idea, it is found that the average total observational error of SNIa is obviously greater than 0.55^{m}, so we can't decide whether the universe is accelerating expansion or not.

Query on Accelerating Expansion of the Universe II: Besides, we will discuss a possible reason of the departure from isotropy of the observed cosmic microwave background temperature.

Biography

Qiuhe Peng is mainly engaged in nuclear astrophysics, particle astrophysics and Galactic Astronomy research. In the field of Nuclear Astrophysics, his research project involved a neutron star (pulsar), the supernova explosion mechanism and the thermonuclear reaction inside the star, the synthesis of heavy elements and interstellar radioactive element such as the origin of celestial ^{26}Al. In addition, through his lectures, he establishes Nuclear Astrophysics research in China, He was invited by Peking University, by Tsinghua University (both in Beijing and in Taiwan) and by nuclear physics institutes in Beijing, Shanghai, Lanzhou to give lectures on Nuclear Astrophysics for many times. He has participated in the international academic conferences over 40 times and he visited more than 20 countries. In 1994, he visited eight institutes in USA to give lectures. He is the first Chinese Astrophysicist to visit NASA and to give a lecture on the topic, "Nuclear Synthesis of Interstellar ^{26}Al". In 2005, he visited USA twice and gave lectures in eight universities again. Inviting six astronomers of USA to give series lectures, he has hosted four consecutive terms summer school on gravitational wave astronomy. After the four summer school obvious effect, at least 20 young scholars in China in the field of gravitational wave astronomy specialized learning and research. 220 research papers by him have been published.

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