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Measuring distances of quasars through geometric method

Prof. Jian-Min Wang

Institute of High Energy Physics, CAS



Prof. Jian-Min Wang joined IHEP under "The Hundred Talents Program" in 1999. He was graduated from National University of Defense Technology in 1987, and got his PhD at University of Science and Technology of China in 1995. He was supported by the National Science Fund for Distinguished Young Scholars in 2003, and awarded the Huang Run-Qian Prize for

Astrophysics in 2020. His major interests are qusasrs for supermassive black hole masses, cosmology and nano-Hz gravitational waves.

Abstract

Quasars are cosmological celetial objects, but their distances have been hardly measured so far. Thanks are given to GRAVITY/VLTI for its powerful capbilities of spatial resolution (10 μ as) of 3C 273 broad-line regions. This offers an opportunity of measuring quasar distances through geometric method. In this talk, I will explain a new geometric scheme of quasar distances through GRAVITY/VLTI and reverberation mapping. It is totally independent of extinction, dereddening, standarization and calibrations of cosmic ladders. Successful application of the scheme was done for 3C 273.





