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Fueling Supermassive Black Holes and Cosmological Evolution

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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 Techonlogy of China in 1995. He was supported by the NSFC Young Outstanding Grant in 2003. He is the deputy director of The CAS Key Laboratory for Particle Astrophysics. He and his group are working on wide ranges of black hole accretion physics, quasars and galactic astronomy, especially cosmological evolution of black hole spins, formation of broad line regions of AGNs, starburst-AGN connection and dynamics of coevolution.

Abstract

Fueling SMBHs is poorly understood though they are known to coevolve with their host galaxies. We will talk about:

- 1) dynamics of the coevolution;
- 2) consequences of fueling SMBHs and formation of broad line regions;
- 3) cosmological evolution of SMBH spins;
- 4) random accretion onto SMBHs driven by mergers;
- 5) presence of dual AGNs.

The intrinsic connections among the above subjects will be extensively discussed.

