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3D spectroscopy to dissect galaxies down to their central supermassive Black Holes

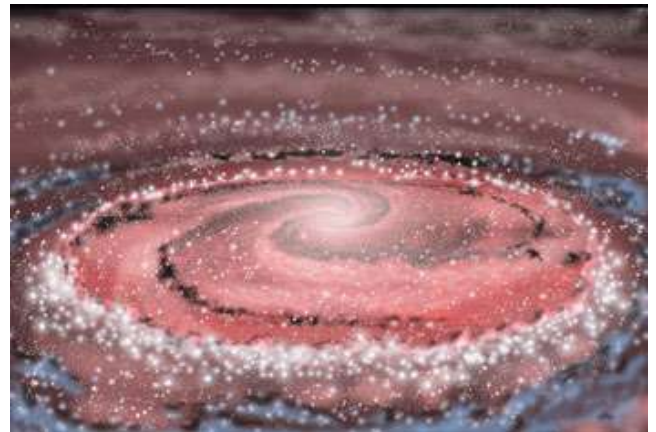


Dr. Kambiz Fathi (Stockholm Observatory)

Dr. Kambiz Fathi is an associate professor in astrophysics at Stockholm University. His astrophysics research aims at understanding the origin and dynamical evolution of spiral galaxies and the fuelling of supermassive black holes. He use mathematical models to interpret multi-wavelength images and spectra obtained with all major instruments mounted on world’s leading astronomical observatories.

Abstract

I will present some recent results from Integral Field Spectrographs and Fabry-Perot Interferometers which provide a unique data set for studying dynamics of galaxies. The main focus of this talk will be on the sub-class of spiral galaxies, and the connection between their large-scale dynamics and nuclear activity. In particular, I will elaborate on the role of



streaming along bars and spiral arms and the corresponding effects on phase transition of the interstellar medium. Quantifying these effects will provide constrains on our galaxy formation and evolution theories.

All are welcome! Tea, coffee, biscuits will be served at 2:45 P.M.

You are welcome to nominate speakers to Shude Mao (shude.mao@gmail.com), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn).