

## **Fueling the central activities in barred spiral galaxies**

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Both AGNs and starbursts require the processing of huge amounts of material in order to achieve the observed luminosities. One of the enduring mysteries in extragalactic astronomy is how gas can lose its angular momentum and be transported into the centers of galaxies to fuel these central activities. It is proposed that the mass flow induced by a bar potential of kiloparsec scale is a possible source for this fueling. In this talk, we will present, by detailed comparisons of our hydrodynamical simulation results with observations in a number of galaxies, how bar potential can effectively transport gas into the central region of galaxies.