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## Winds Theory and Modeling: Characteristics and Spectral Signatures

Powerful ionized winds are often observed during episodic outbursts in black hole X-ray binaries (aka. microquasars). Focused on X-ray band, the observed highly ionized absorbers of multiple ions are thought to be launched and accelerated from an accretion disk by some means. The current disk wind theory suggests multiple driving mechanisms with distinct characteristics, which may well manifest themselves in absorption features. In this presentation, I will review the X-ray wind physics of some leading scenarios and their spectral signatures.

### Affiliation

James Madison University

### E-mail

fukumukx@jmu.edu

**Author:** FUKUMURA, Keigo (James Madison University)

**Presenter:** FUKUMURA, Keigo (James Madison University)

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