

# Introductory Talk

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There are some works basing on the assumption that the accretion flow is inhomogeneous have been done to explain the phenomena of AGNs and BHXBs. What we interested in is that whether the inhomogeneous accretion flow can be identified through observationally. We have used simple toy model (disc is concentric rings and material is neutral) to calculate the output continuum spectrum and Fe  $K\alpha$  lines of the inhomogeneous accretion flow. We find these output spectrum are rather different with the spectrum of the homogeneous accretion flow. So it is possible for one to distinguish the condition of disc (homogeneous or inhomogeneous) through analysis the spectrum of the disc.

However, in a sense, the previous model is not self-consistent since the disc is more likely ionized in the inner region of these system which contribute the most flux of the disc. So we hope that we can self-consistently improve the simple disc structure (clumpy and ionized) by using cloudy.