
Probing black hole accretion through X-ray timing

Barbara De Marco^{*†}

¹N. Copernicus Astronomical Center of the Polish Academy of Sciences (CAMK) – ul. Bartycka 18,
00-716 Warszawa, Poland

Abstract

Strong flux variability is one of the observational manifestations of black hole (BH) accretion. Some of the fastest variations are detected in the X-ray band, where the inner accretion flow is probed. I will review the X-ray variability characteristics of BH-accreting systems, discussing the information they convey about the properties of the accretion flow. In particular, I will focus on recent developments based on the study of "X-ray reverberation", and illustrate how these studies are informing our understanding of the structure and dynamics of the accretion flow.

*Speaker

†Corresponding author: bdemarco@camk.edu.pl