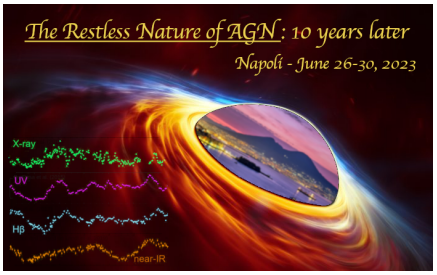

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Modeling variable diffuse continuum from dusty/dustless plasma using CLOUDY

Reverberation mapping is an effective technique to understand the structure and kinematics of broad-line region (BLR) as well as the mass of the black hole. It involves measuring the time delays between the variable continuum and emission line fluxes. The expected time delay varies with the wavelength as (wavelength)^(4/3). But the observations have shown that the measured time delays are larger than the expected delays. So, it would be a good idea to estimate the contribution from different parts (including BLR) into the time-delay measurements. I'll discuss the contribution of diffuse continuum from the BLR in the time delay measurements by considering different model grids of dusty/dustless plasma using CLOUDY simulations.

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