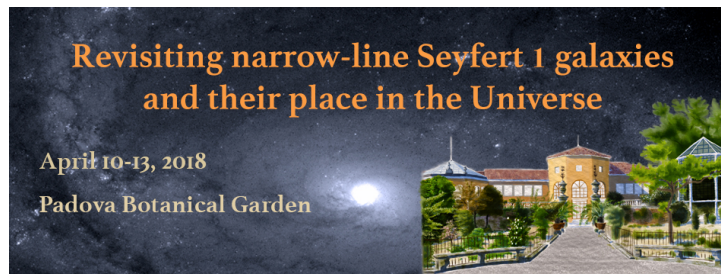


Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe



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Ionized outflows in the NLSy1 IZw1: departing from the classical picture

Thursday, 12 April 2018 15:10 (20 minutes)

NLSy1s often present complex systems of ionized absorption both in the X-ray and UV band. Absorption by dust of unclear origin (from within the ionized absorber or from dusty merging events), ultrafast outflows and finally warm absorbers with peculiar variability.

We present a simultaneous spectroscopy campaign using XMM-Newton and HST-COS on the bright NLSy1 IZw1.

This source already displayed peculiar behaviour in past observations (Costantini et al. 2007), showing multi-component UV-X warm absorber in apparent constant non-equilibrium and a variable iron K alpha line (Gallo et al. 2007).

Our recent campaign casts a new light on the warm absorber behaviour, showing a clear link between the low-, the high- ionization and the UV gas components as well as a variable column density (Silva, Costantini et al. A&A submitted).

These observational elements clearly challenge the classical conical-shaped outflow in ionization equilibrium. The observational evidences strongly favour episodes of plasma ejection, possibly from the accretion disk.

Motivation

Grant

no

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