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Bubbles of ionized gas around Ultraluminous X-ray sources

Ultraluminous X-ray sources (ULXs) are accreting stellar compact objects whose X-ray luminosities exceed the Eddington limit. In order to get more insights on the nature of their accreting compact object (black hole or neutron star) and the geometries of super-Eddington accretion flows, it is useful to look at the influence of ULXs on their environment. I will present how VLT/MUSE 3-D spectroscopy can help studying bubbles of ionized gas formed around some ULXs. I will discuss the nature of those bubbles: ionization by X-ray radiation and/or shocks which would indicate the presence of winds.

Contribution

Oral talk

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