



Jets in high-mass microquasars

[Manel Perucho](#)

(Submitted on 6 Jul 2011)

The morphologies of detected jets in X-ray binaries are almost as diverse as their number. This is due to different jet properties and ambient media that these jets encounter. It is important to understand the physics of these objects and to obtain information about possible sites suitable for particle acceleration in order to explain the observations at very high energies. Here I present the results obtained from the first relativistic hydrodynamical simulations of jets in high-mass microquasars. Our results allow us to make estimates for the emission originated in different sites of the whole structure generated by the jets. These works represent a first step in trying to obtain a deeper understanding of the physics and emission processes related with jets in high-mass microquasars.

Comments: Proceedings of the Frascati Workshop "Multifrequency Behaviour of High Energy Cosmic Sources", Vulcano (Italy), 23-28 May 2011. 5 pages

Subjects: **High Energy Astrophysical Phenomena (astro-ph.HE)**;
Galaxy Astrophysics (astro-ph.GA)

Cite as: [arXiv:1107.1056](#) [astro-ph.HE]
(or [arXiv:1107.1056v1](#) [astro-ph.HE] for this version)

Submission history

From: Manel Perucho Pla [[view email](#)]

[v1] Wed, 6 Jul 2011 08:39:00 GMT (1782kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

astro-ph.HE

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[astro-ph](#)

[astro-ph.GA](#)

References & Citations

- [INSPIRE HEP](#)
([refers to](#) | [cited by](#))
- [NASA ADS](#)

Bookmark([what is this?](#))

