

# The Logarithmic Sobolev Constant of The Lamplighter

Evgeny Abakumov (LAMA), Anne Beaulieu (LAMA), François Blanchard (LAMA), Matthieu Fradelizi (LAMA), Nathaël Gozlan (LAMA), Bernard Host (LAMA), Thiery Jeantheau (LAMA), Magdalena Kobylanski (LAMA), Guillaume Lecué (LAMA), Miguel Martinez (LAMA), Mathieu Meyer (LAMA), Marie-Hélène Mourgues (LAMA), Frédéric Portal (LAMA), Francis Ribaud (LAMA), Cyril Roberto (LAMA), Pascal Romon (LAMA), Julien Roth (LAMA), Paul-Marie Samson (LAMA), Pierre Vandekerkhove (LAMA), Abdellah Yousfi (LAMA)

(Submitted on 8 Nov 2010)

We give estimates on the logarithmic Sobolev constant of some finite lamplighter graphs in terms of the spectral gap of the underlying base. Also, we give examples of application.

Subjects: **Probability (math.PR)**

Cite as: [arXiv:1011.1764v1](https://arxiv.org/abs/1011.1764v1) [math.PR]

## Submission history

From: Cyril Roberto [[view email](#)]

[v1] Mon, 8 Nov 2010 10:43:20 GMT (14kb)

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

## Download:

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

Current browse context:

**math.PR**

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

[new](#) | [recent](#) | [1011](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

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

