

Supplementary Materials for **Foot force models of crowd dynamics on a wobbly bridge**

Igor Belykh, Russell Jeter, Vladimir Belykh

Published 10 November 2017, *Sci. Adv.* **3**, e1701512 (2017)

DOI: 10.1126/sciadv.1701512

The PDF file includes:

- Legends for movies S1 to S3

Other Supplementary Material for this manuscript includes the following:

(available at advances.sciencemag.org/cgi/content/full/3/11/e1701512/DC1)

- movie S1 (.avi format). Identical van der Pol.avi is related to Fig. 5.
- movies S2 and S3 (.avi format). Inverted pendula identical.avi and inverted pendula 10% mismatch.avi are related to Fig. 9.

movie S1. Identical van der Pol.avi is related to Fig. 5. The video demonstrates the onset of phase locking as a function of the addition of pedestrians on the bridge for identical models (5) (coupled Van der Pol-type models).

movies S2 and S3. Inverted pendula identical.avi and inverted pendula 10% mismatch.avi are related to Fig. 9. The videos demonstrate the onset of phase locking for identical and mismatched inverted pendulum models (1)-(3), respectively.