



Universiteit
Leiden
The Netherlands

MR Imaging of Reynolds Dilatancy in the Bulk of Smooth Granular Flows

Sakaie, K.; Fenistein, D.; Carroll, T.; Hecke, M.L. van; Umbanhowar, P.

Citation

Sakaie, K., Fenistein, D., Carroll, T., Hecke, M. L. van, & Umbanhowar, P. (2008). MR Imaging of Reynolds Dilatancy in the Bulk of Smooth Granular Flows. *Epl*, 84(4), 49902. Retrieved from <https://hdl.handle.net/1887/80986>

Version: Not Applicable (or Unknown)

License: [Leiden University Non-exclusive license](#)

Downloaded from: <https://hdl.handle.net/1887/80986>

Note: To cite this publication please use the final published version (if applicable).



MR imaging of Reynolds dilatancy in the bulk of smooth granular flows

To cite this article: K. Sakaie *et al* 2008 *EPL* **84** 49902

View the [article online](#) for updates and enhancements.

Related content

- [Reynolds Dilatancy in Granular Flows](#)
K. Sakaie, D. Fenistein, T. J. Carroll *et al*.
- [Inter-relationship between joint dilatancy and frictional resistance: impact on fracture behaviour](#)
K I-I Eshiet and Y Sheng
- [Shear jamming in granular experiments without basal friction](#)
Hu Zheng, Joshua A. Dijksman and R. P. Behringer

Recent citations

- [Influence of the gravity on the discharge of a silo](#)
S. Dorbolo *et al*
- [Invited Article: Refractive index matched scanning of dense granular materials](#)
Joshua A. Dijksman *et al*
- [From frictional to viscous behavior: Three-dimensional imaging and rheology of gravitational suspensions](#)
Joshua Dijksman *et al*

Erratum

MR imaging of Reynolds dilatancy in the bulk of smooth granular flows

K. SAKAIE¹, D. FENISTEIN², T. J. CARROLL³, M. VAN HECKE² and P. UMBANHOWAR⁴

¹ *The Cleveland Clinic - 9500 Euclid Ave., Mailcode U-15, Cleveland, OH 44195, USA*

² *Kamerlingh Onnes Lab, Universiteit Leiden - Postbus 9504, 2300 RA Leiden - The Netherlands*

³ *Departments of Biomedical Engineering and Radiology, Northwestern University*

676 N. St. Clair, Suite 1400, Chicago, IL 60611, USA

⁴ *Department of Mechanical Engineering, Northwestern University - Evanston, IL 60208, USA*

Original article: *Europhysics Letters (EPL)*, **84** (2008) 38001.

PACS **99.10.Cd** – Errata

Copyright © EPLA, 2008

On page 4, right column, lines 3–5, the sentence “Even though our data clearly indicates that ... , the data is too sparse and too sensitive to noise to determine a single curve for $\Delta\phi$ vs. γ .” should be disregarded since this was already explained in the previous paragraph.