

# ERRATUM: ACTIVELY ROTATING GRANULAR PARTICLES MANUFACTURED BY RAPID PROTOTYPING

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In [1] the rotational frequency of a single Vibrot was incorrectly plotted as a function of the excitation amplitude  $A$ . Instead the figure shows the data in dependence of the dimensionless acceleration  $\Gamma = A(2\pi f_D)^2/g$ , where  $g$  is the gravitational acceleration. Only in the case of  $f_D = 50$  Hz,  $A = 0.13$  mm corresponds to  $\Gamma = 1.3$  g and vice versa. The corresponding paragraph of the original manuscript must then be replaced by the following: “Figure 4 shows  $\bar{\omega}$  vs.  $f_D$  for two different values of the dimensionless acceleration  $\Gamma = A(2\pi f_D)^2/g$ . For a low  $\Gamma$  the particle performs slow rotation where  $f_D$  depends non-monotonously on the frequency characterized by a minimum at  $f_D = 50$  Hz. For large  $\Gamma$ , we observe slow rotation at low frequency and tumbling motion for  $f_D \geq 30$  Hz, where the rotational velocity decreases with increasing  $f_D$ .” The corrected version of the plot is shown in Fig. 4.

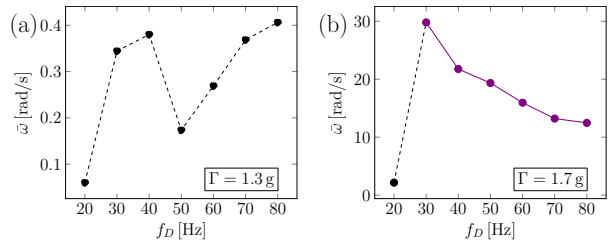


Figure 4. Mean rotational velocity  $\bar{\omega}$  of a Vibrot as a function of the excitation frequency  $f_D$  for (a)  $\Gamma = 1.3$  g and (b)  $\Gamma = 1.7$  g. Error bars are on the order of the marker size.

[1] C. Scholz and T. Pöschel, Rev Cuba Física 33, 37 (2016).