

# Electronic Supplemental Material to Coarsening dynamics of ferromagnetic granular networks — experimental results and simulations

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## Supplementary movie SM1

This movie is showing the network formation in the experiment after a sudden quench of the shaker amplitude from  $\Gamma = 3g$  to  $\Gamma = 1.9g$ . Note that the steel spheres appear black, whereas the glass spheres appear grey. The movie is associated with Fig.2b of the article.

## Supplementary movie SM2

This movie is a transformation of the movie SM1, where only the connecting lines in-between the steel spheres are shown. The movie is associated with Fig. 14 of the article.

## Supplementary movie SM3

The movie is presenting numerical results for the system S2, which has no central attraction ( $\epsilon_a = 0$ ). Magnetic particles are plotted in black, non magnetic in light grey. Neighbouring contacts between particles forming clusters are marked in orange. For further details see Fig. 19 of the article.

## Supplementary movie SM4

The movie is presenting numerical results for the system S3, with a central attraction of  $\epsilon_a = 0.5$ . For further details see Fig. 19 of the article.

## Supplementary movie SM5

The movie is presenting numerical results for the system S3, with a central attraction of  $\epsilon_a = 1.0$ . For further details see Fig. 19 of the article.

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