

## Application No. 546: Levitating surfboard

Author: Alain Sacuto , Marie Aude Méasson, Yann Gallais, Maximilien Cazayous, France

### An unparalleled superconductor railway

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This customer application was THE surprise of the year for us! We published various customer applications on the topic "Superconductor" ([www.supermagnete.de/eng/projects/superconductor](http://www.supermagnete.de/eng/projects/superconductor)) before, but they dealt with relatively small railways that made very light trains levitate. This project, however, is sensational: This "surfboard" can hold over 100 kg and still floats 3 cm above the magnetic railway! It was the main attraction at the scientific exhibition of the University Paris Diderot - the pictures and videos speak for themselves!



A railway of strong neodymium magnets ([www.supermagnete.de/eng/magnets\\_overview\\_raw](http://www.supermagnete.de/eng/magnets_overview_raw)) made this possible. The magnets were custom-ordered from supermagnete.de, measuring 60 x 30 x 25 mm. These impressive block magnets can be viewed in the Making-Of video, starting at 0:25.



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**Concept:** Alain Sacuto , Marie Aude Méasson, Yann Gallais, Maximilien Cazayous, Laboratoire Matériaux et phénomènes Quantique, Université Paris Diderot

**Pictures and movie:** Alain Monclin&Eric Descarprentri, Université Paris Diderot

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