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Le cas des tsunamis et des séismes

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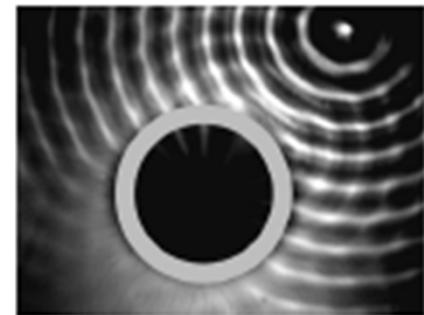
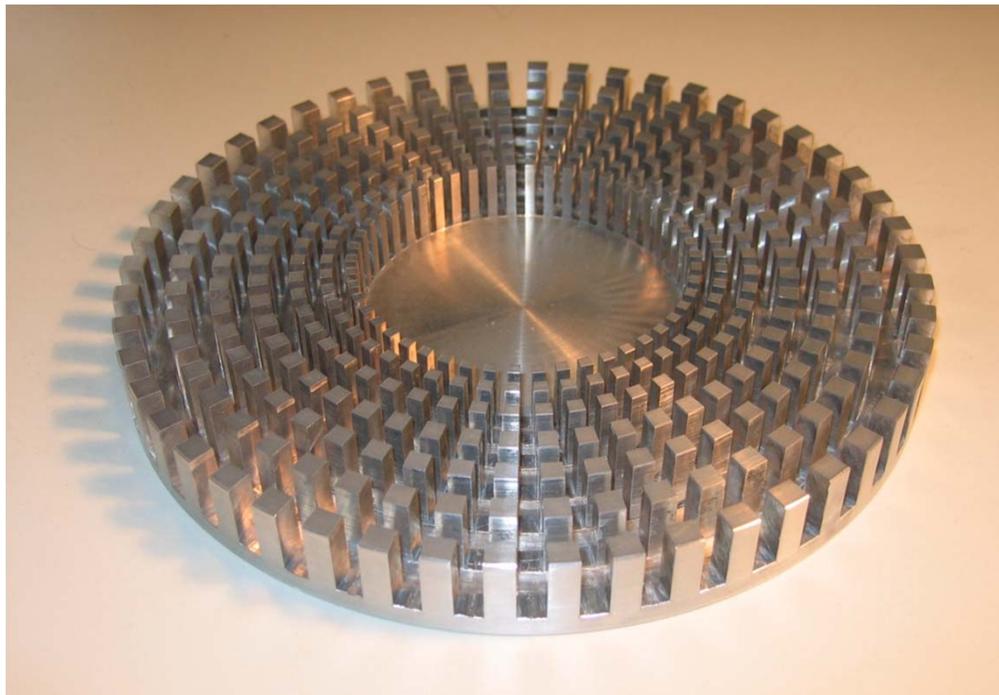


Collaborations

- Laboratoire de mécanique et d'acoustique (CNRS, Marseille)
- Institut Langevin (CNRS/ESPCI/UPMC/Univ. Paris 7)
- Imperial College London (Royaume-Uni)
- Liverpool University (Royaume-Uni)
- Sydney University (Australie)
- Austin University (USA)
- Indian Institute of Technology Kanpur (Inde)

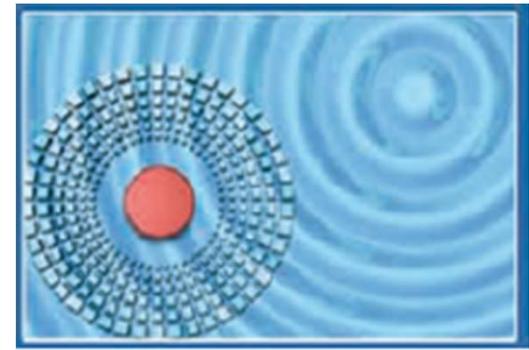
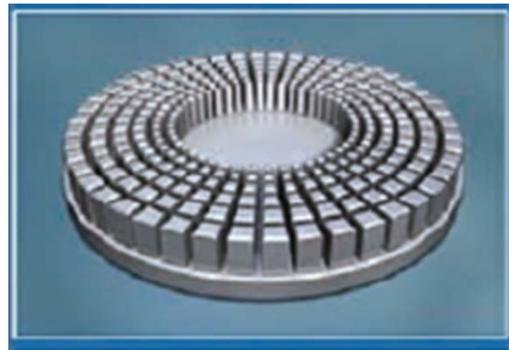
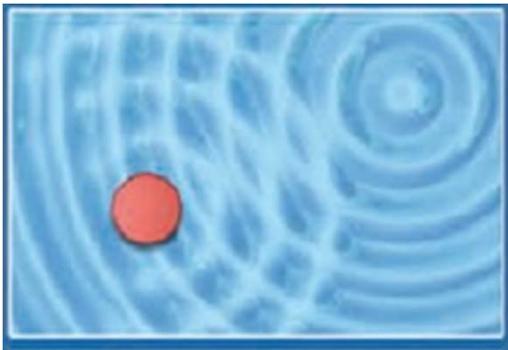


Petite échelle (20 cm) Cape à vagues

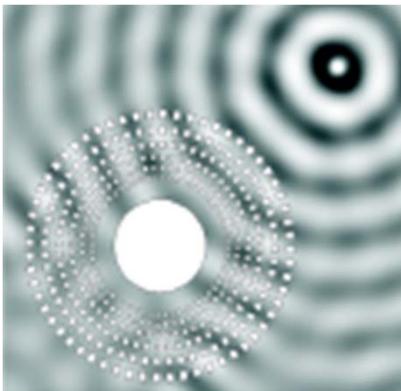


Physical Review Letters 101, 134501 (2008)

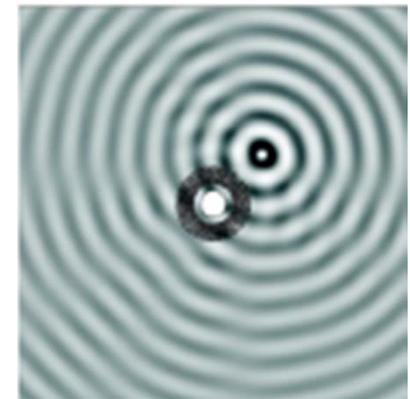
Grande échelle (200 m) Cape anti-tsunamis



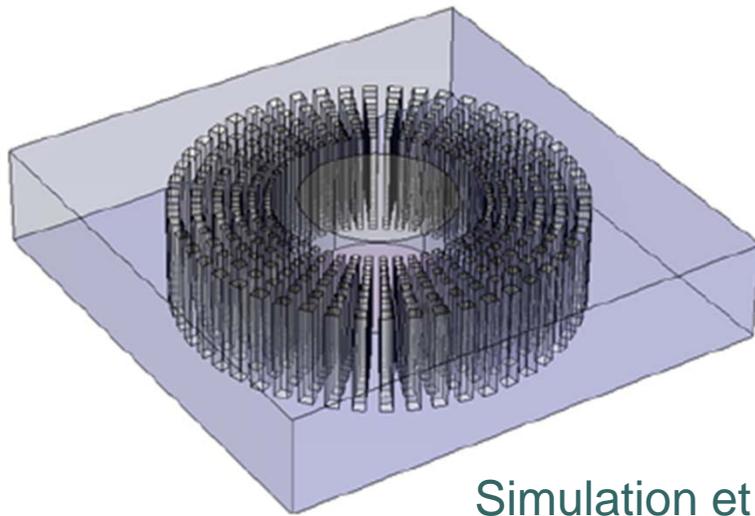
Infographie La Recherche (Février 2012)



Simulation et design:
Institut Fresnel

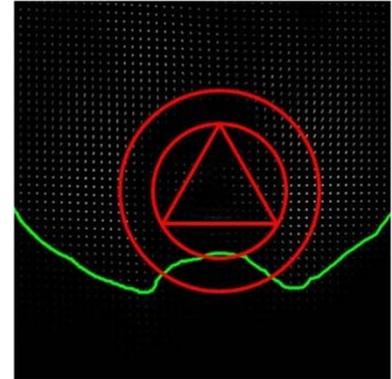
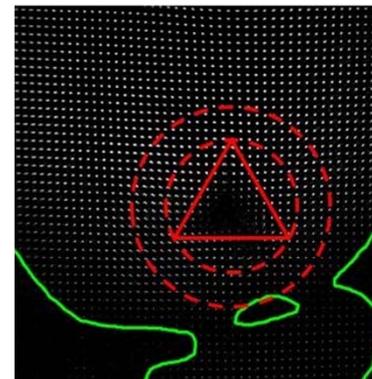
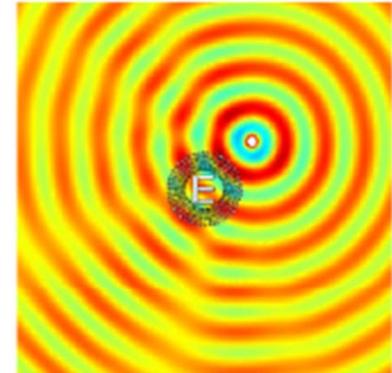
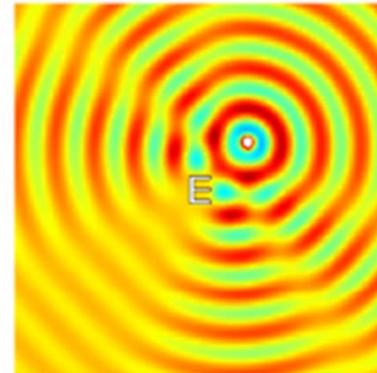


Petite échelle (10 cm) Cape anti-vibrations

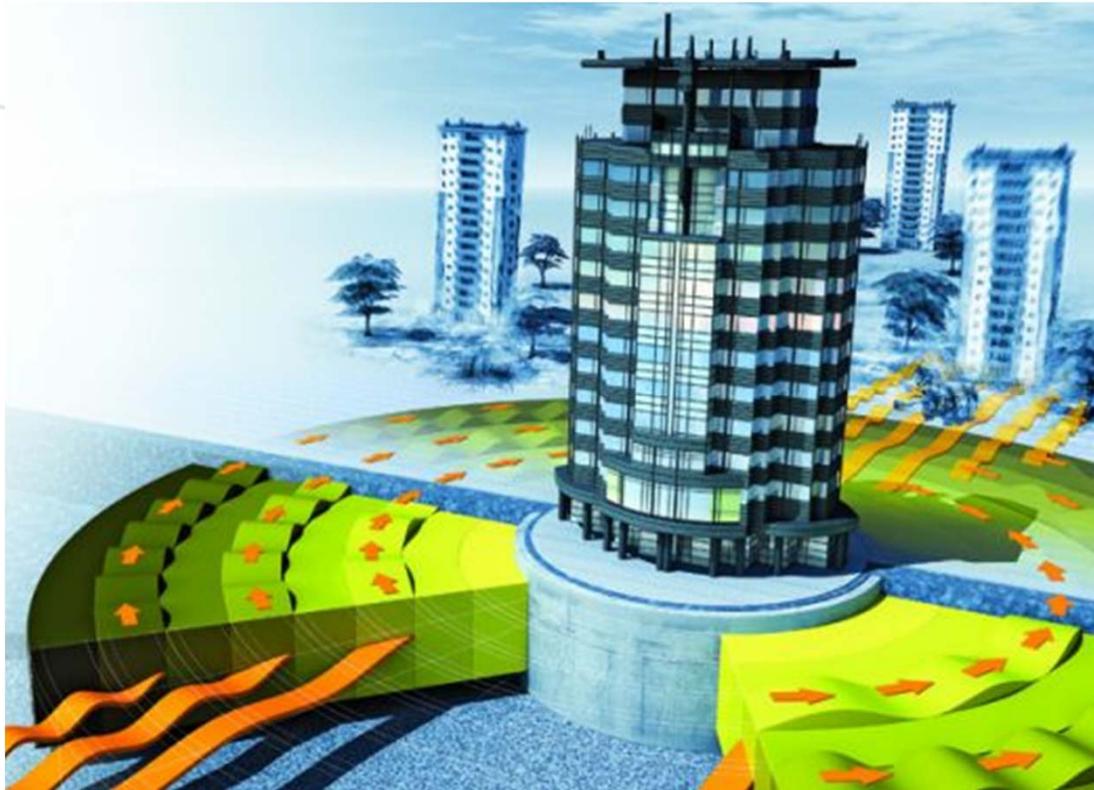


Simulation et design:
Institut Fresnel

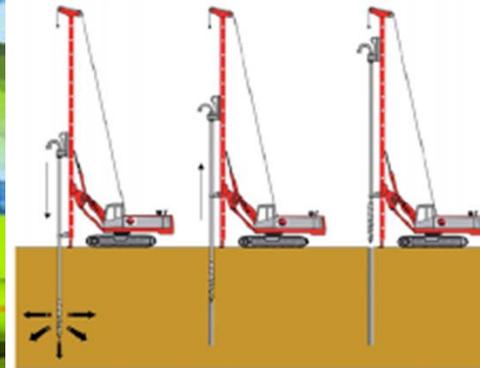
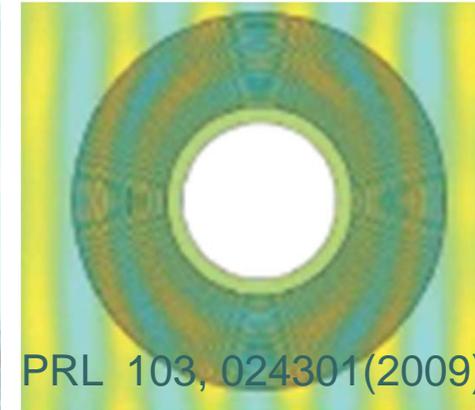
Validation expérimentale:
Nicolas Vandenberghe (IRPHE)



Grande échelle (200m): Cape anti-séismes



Infographie Popular Science Magazine (2009)



Infographie Ménard



Brevets et publications

- 3 brevets, dont un sur des systèmes anti-vibratoires embarqués
- 100 publications scientifiques, dont 40 sur l'invisibilité
- 2 ouvrages scientifiques, dont un sur les métamatériaux acoustiques
- 10 chapitres de livre