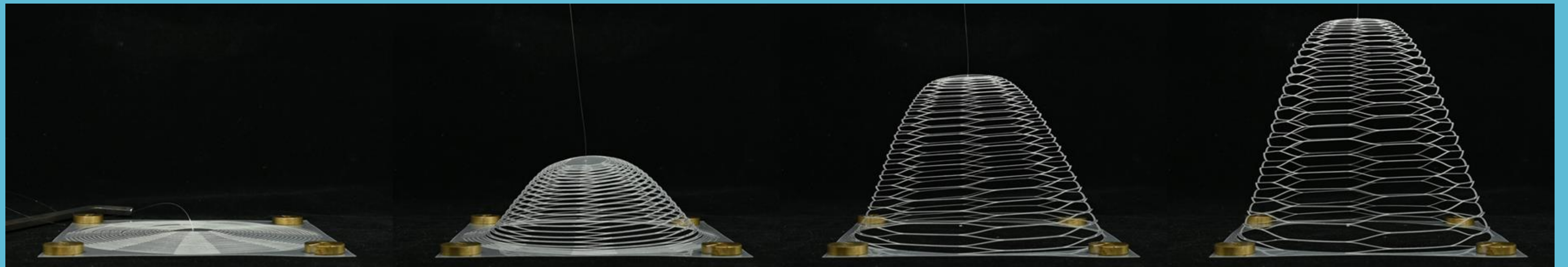# DEPLOYING COMPLEX SHAPES USING KIRIGAMI

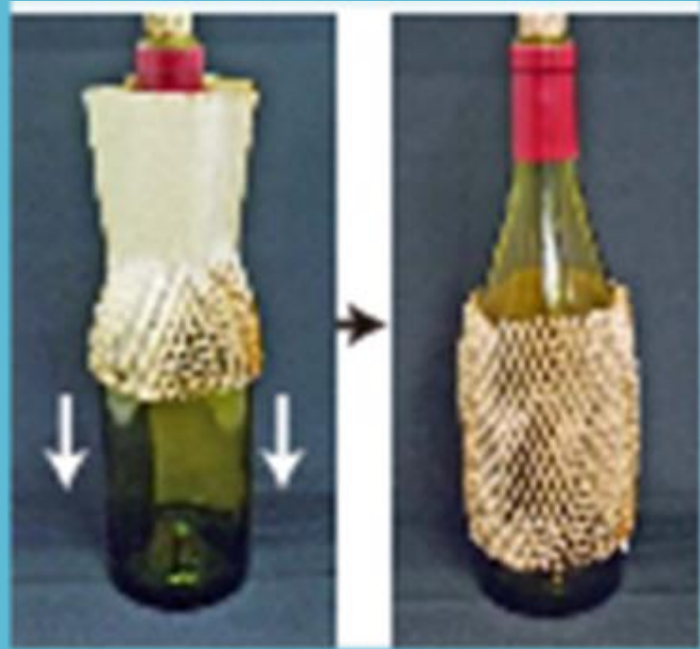Joo-Won HONG[1], Marie TANI[2], José BICO[1], Étienne REYSSAT[1], Benoît ROMAN[1]

1. Laboratoire PMMH, UMR CNRS 7636, ESPCI Paris PSL, France
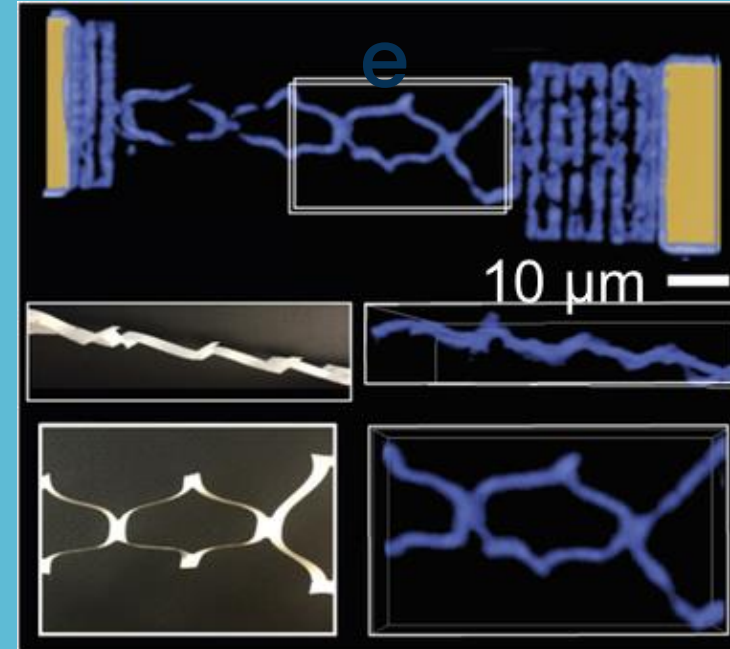2. Dept. of Physics, Tokyo Metropolitan University, Japan
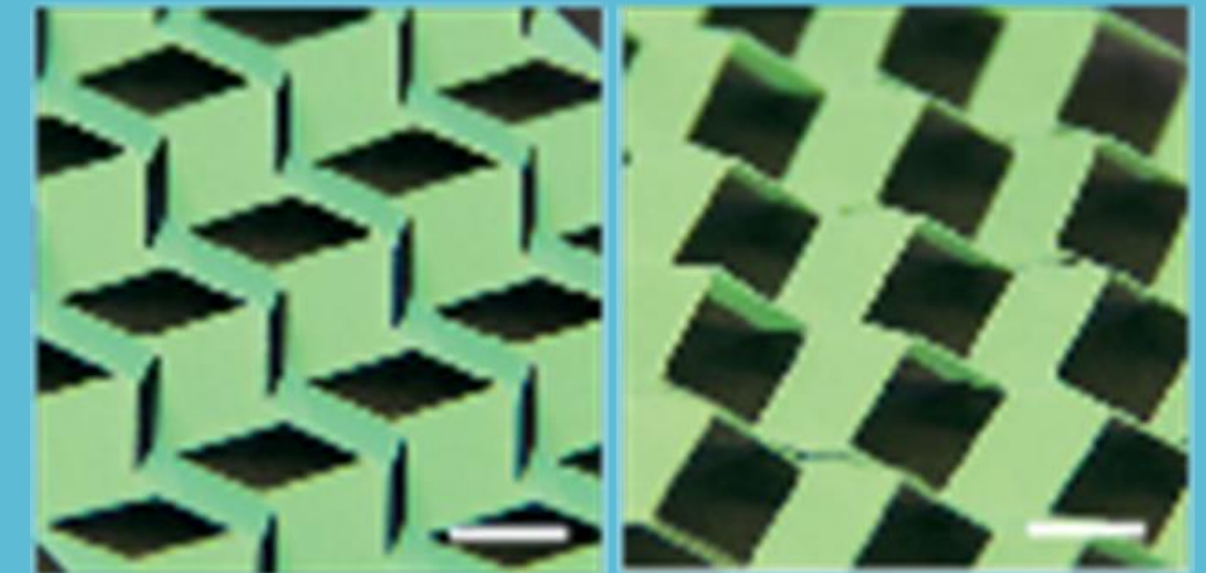
Kirigami and engineering

Packaging protection

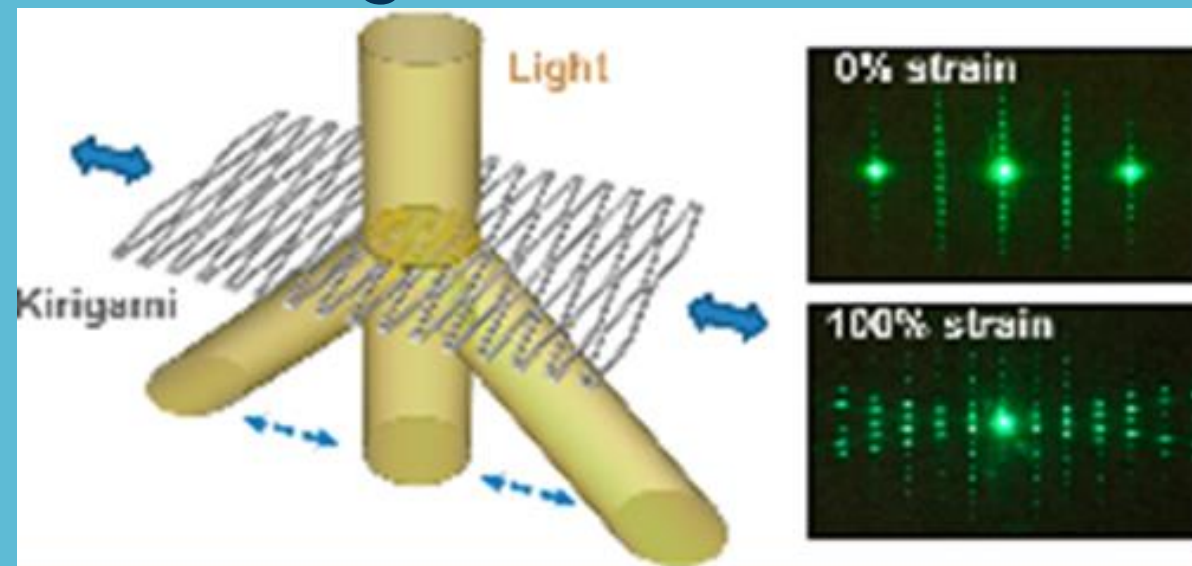Isobe & Okumura 2016

Graphene

10 μm

Blees et al. 2015

Buckling

Rafsanjani & Bertoldi 2017

Light diffraction
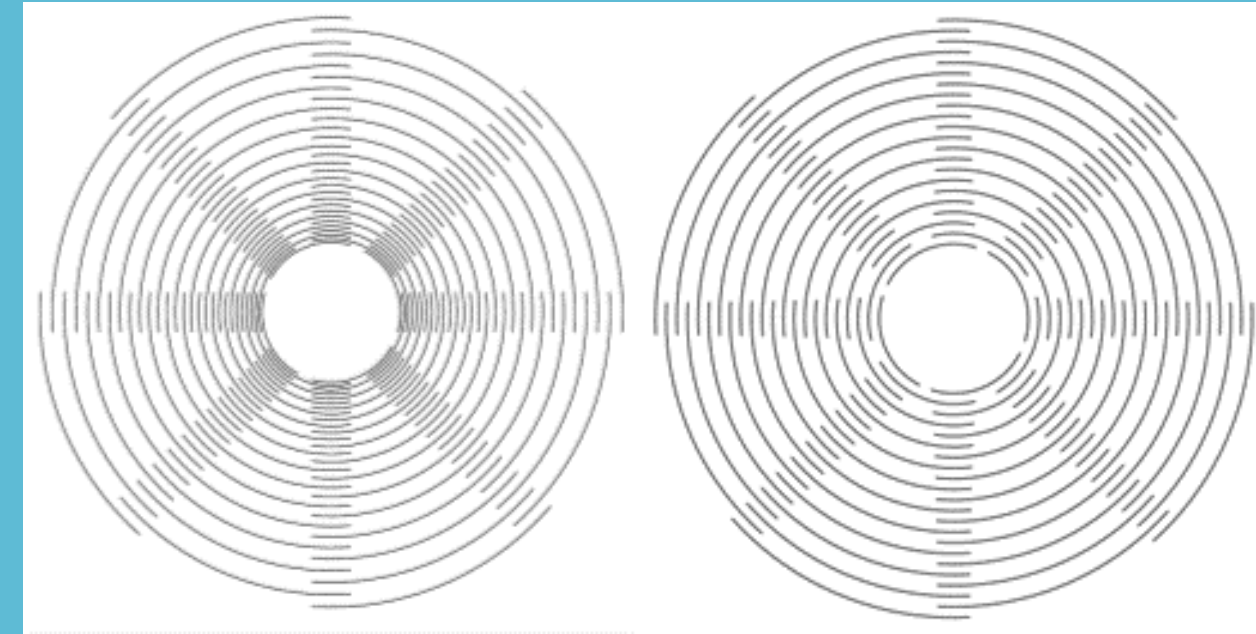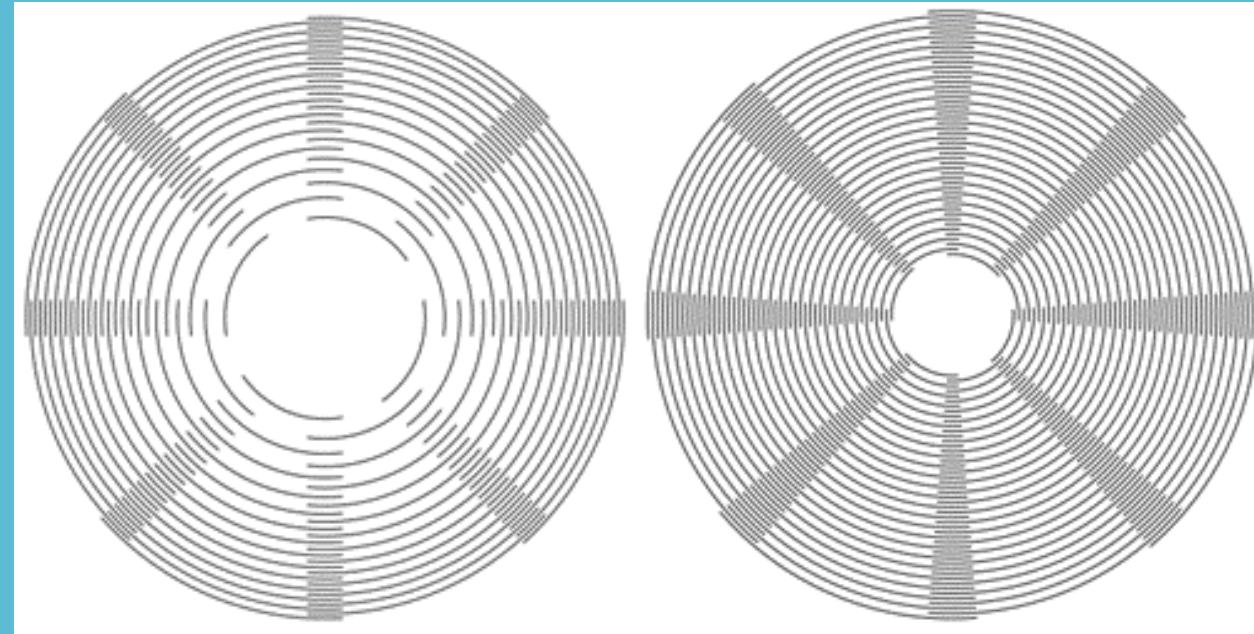

Light

0% strain

Kirigami

100% strain

Xu et al. 2016

Stretchable electronics
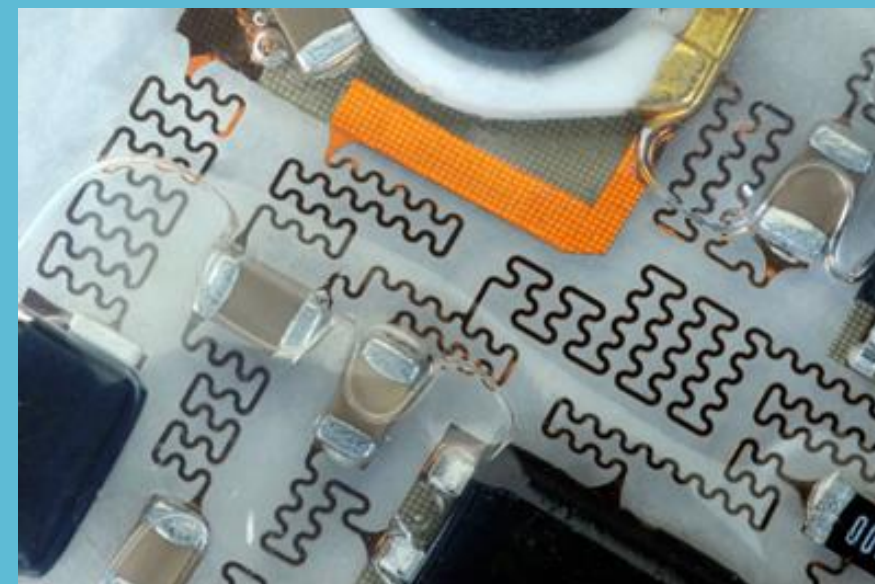
J.Rogers group Illinois
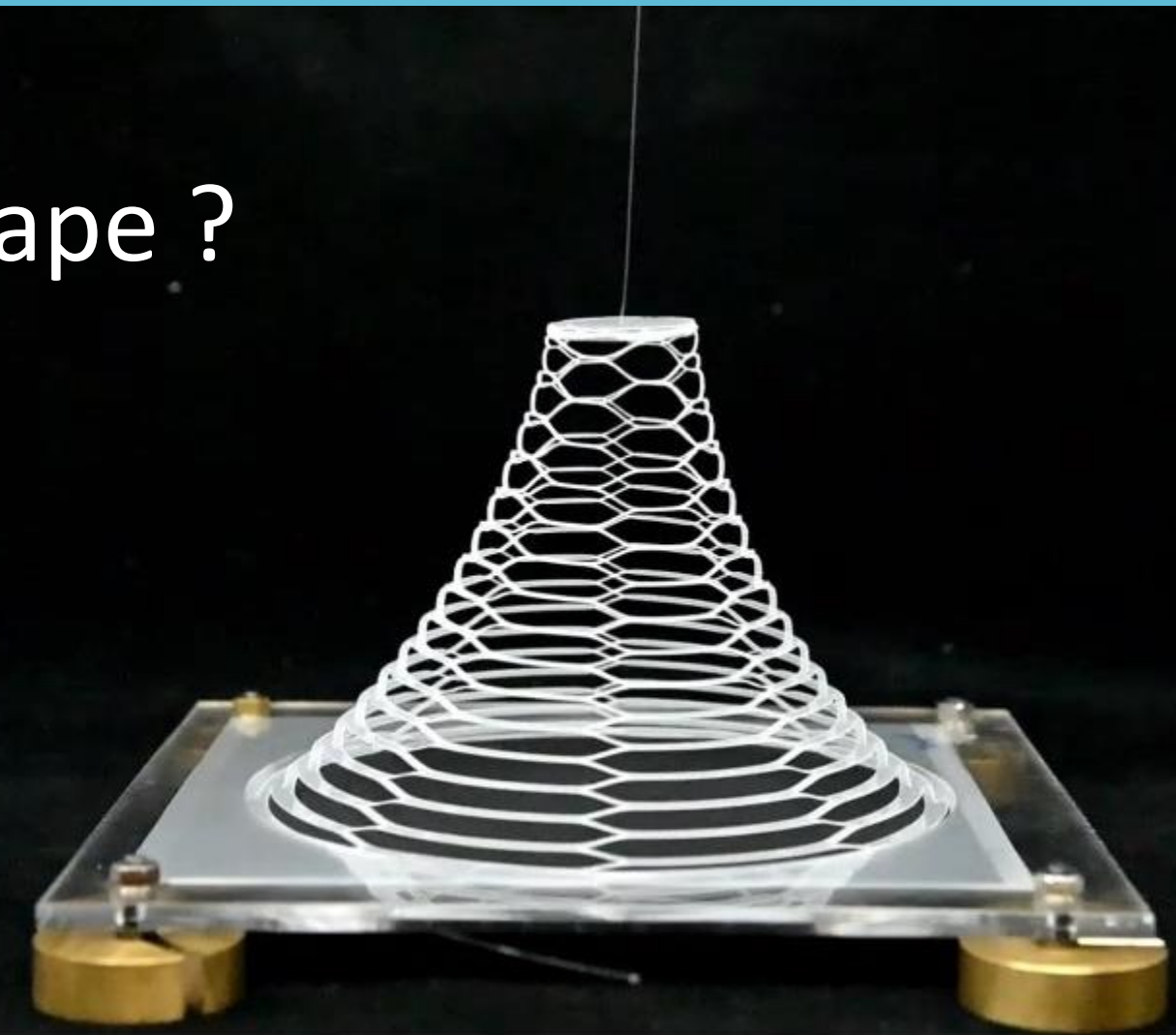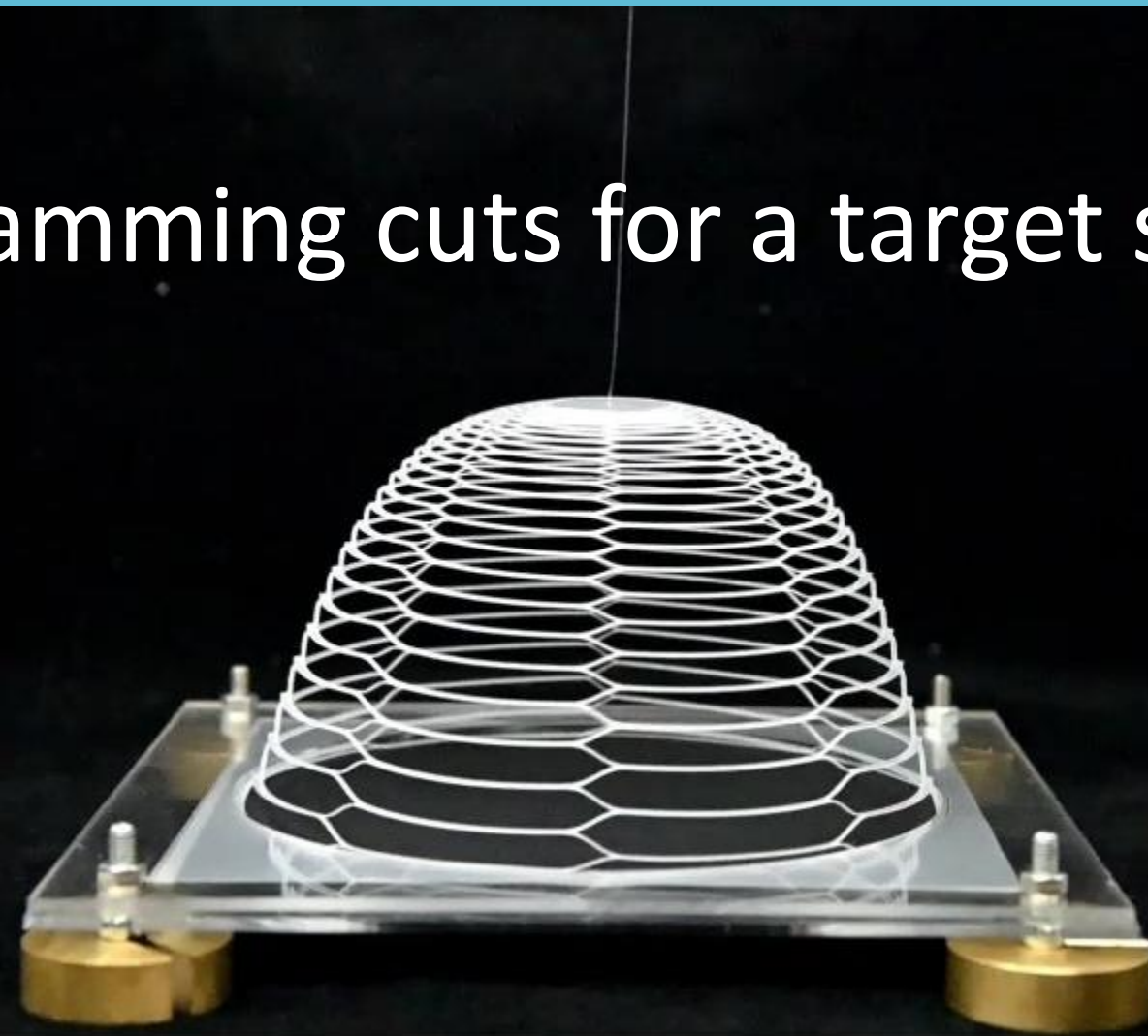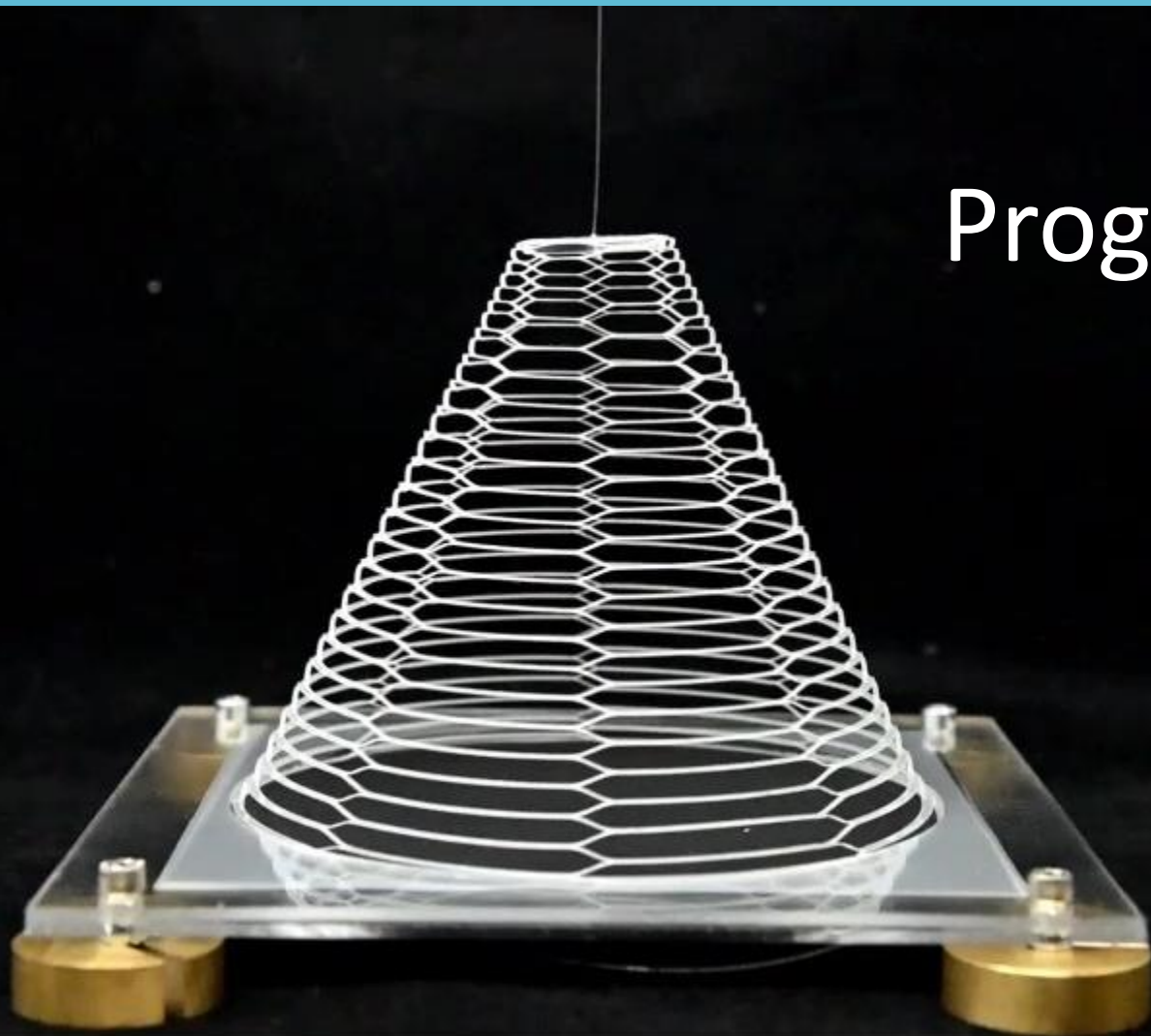
Solar cells

10 mm

Lamoureux et al. 2015

Axisymmetric shapes
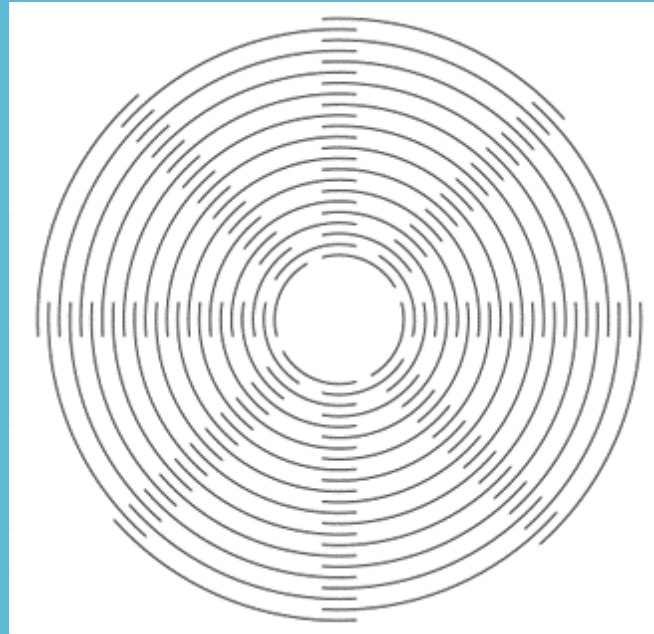
Programming cuts for a target shape ?

Asymmetric shapes