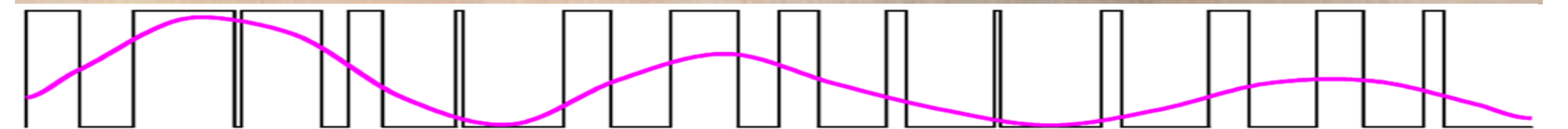
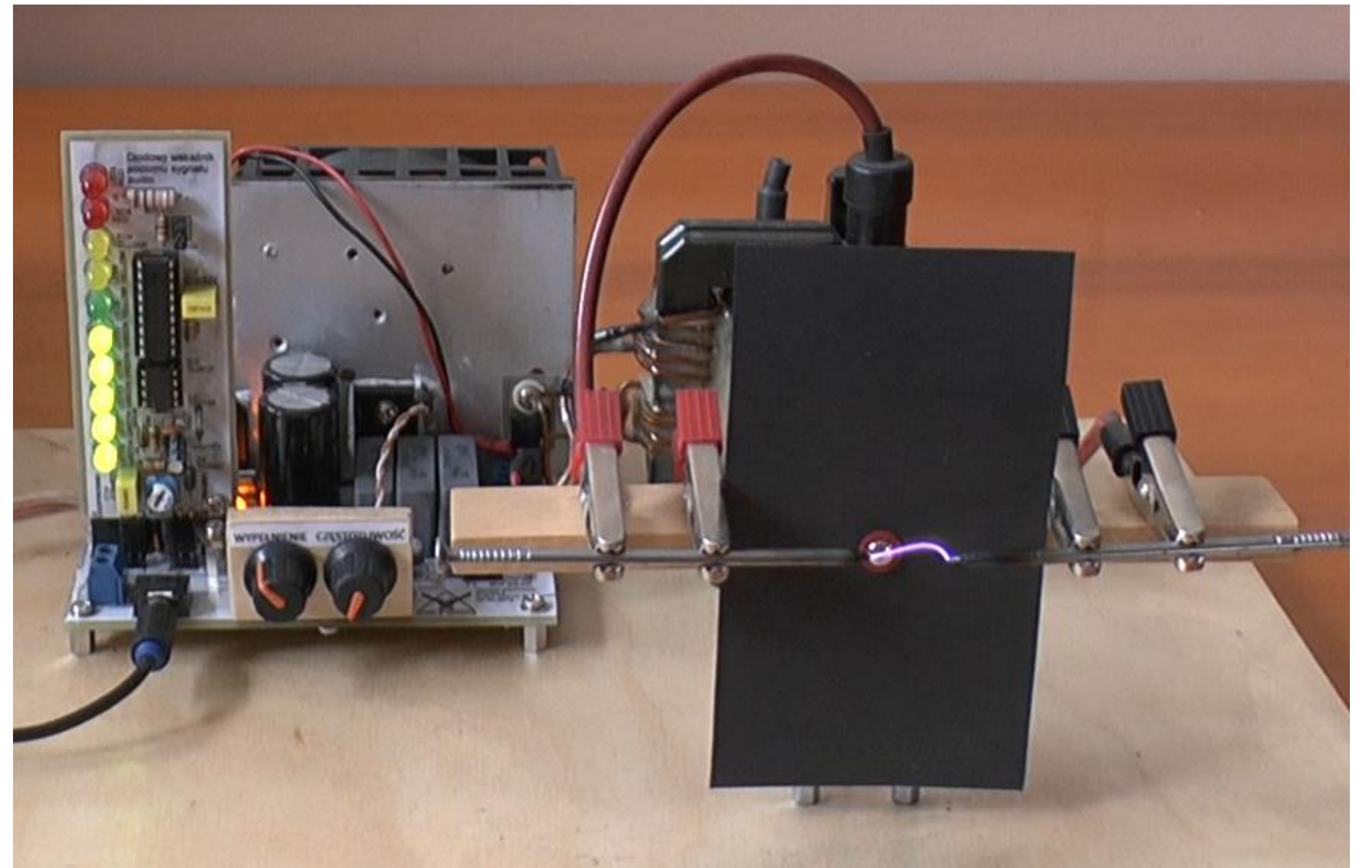


“Plasma speaker: Plasma and it's unusual properties”

Plasma, which seems an uncommon state of matter is actually the most popular of all. Witness the plasma under the shape of an electric arc and acknowledge its properties by a series of experiments with plasma speaker device. Hear it recreate sound, check it's temperature, find out what particles it is made of and what other forms it may be represented by. Meet the state full of intricate relations and unsolved problems. Draw conclusions, become familiar with it and fascinated by it's future applications.



Electrical
sound signal

PWM
generator

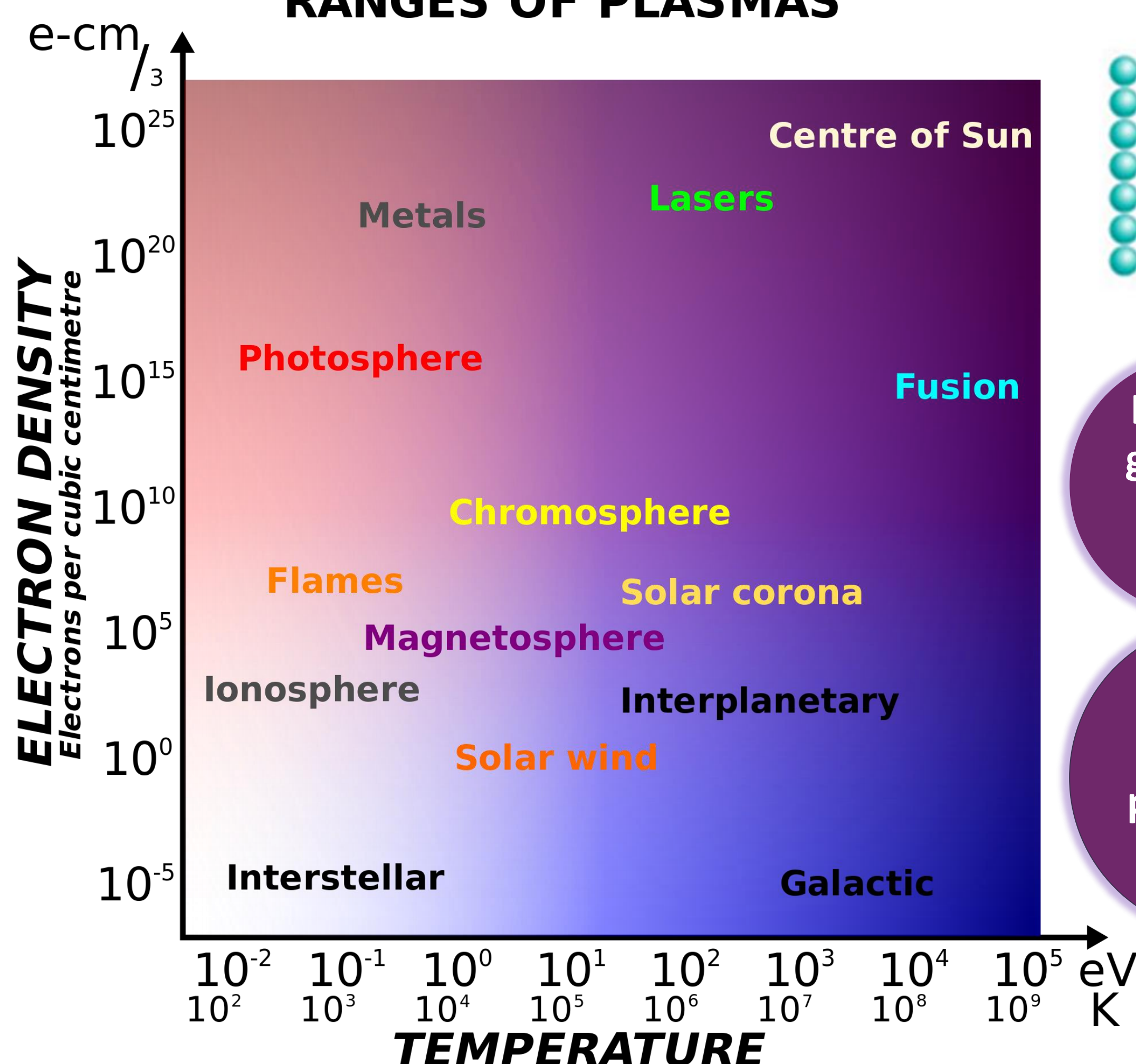
„Condesatio
ns and
rarefactions”
of the
steering
signal

Changes in
voltage and
current of
the output
HV signal

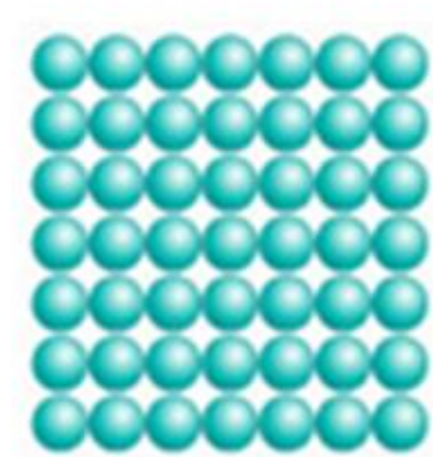
„Condensati
ons and
rarefactions”
of plasma
(changes in
density)

Creation of
an acoustic
wave

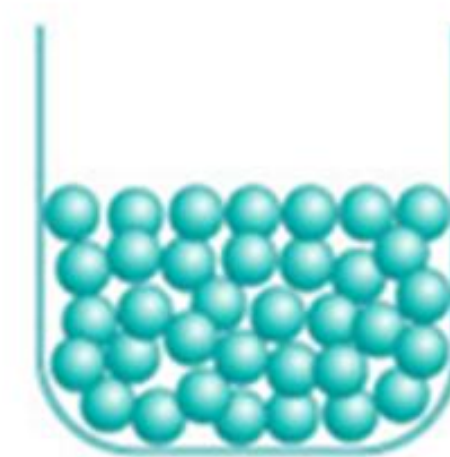
RANGES OF PLASMAS



increasing energy



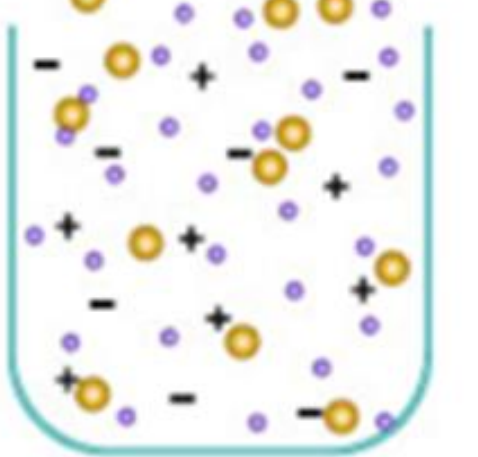
Solid



Liquid



Gas



Plasma

Ionised
gases in
light
bulbs

Stars
e.g.
Sun

Auroras

Hot
flames

Lightning

Plasma
processing

Plasma

Arc cutters
and
furnances

Nuclear
synthesis

Ion
thrusters

Shielding