

ESM Cargese - 10-20<sup>th</sup> October 2017  
Experimental Magnetism Off the Lab - Laurent Ranno

Two experimental practicals will be organised. Each of them will last 2h and gather 18 students.

Dates : Thursday 12<sup>th</sup> and Saturday 14<sup>th</sup> (Week 1).

The idea is to split the room in 6 groups and to address a magnetic problem for 20'. 6 problems will then circulate during each session. Each problem is based on a simple experiment (which can be transported and carried out in Cargese). The idea is to perform the experiment and then to propose an explanation, qualitative at first, and then as quantitative as possible. Each problem will illustrate a magnetic concept.

The planned list of experiments is the following :

- Levitation
- Magnetic Gun
- Fridge Magnet
- Magnetic Brake
- Magnetic Sensing
- Magnetisation or Fluxgate