

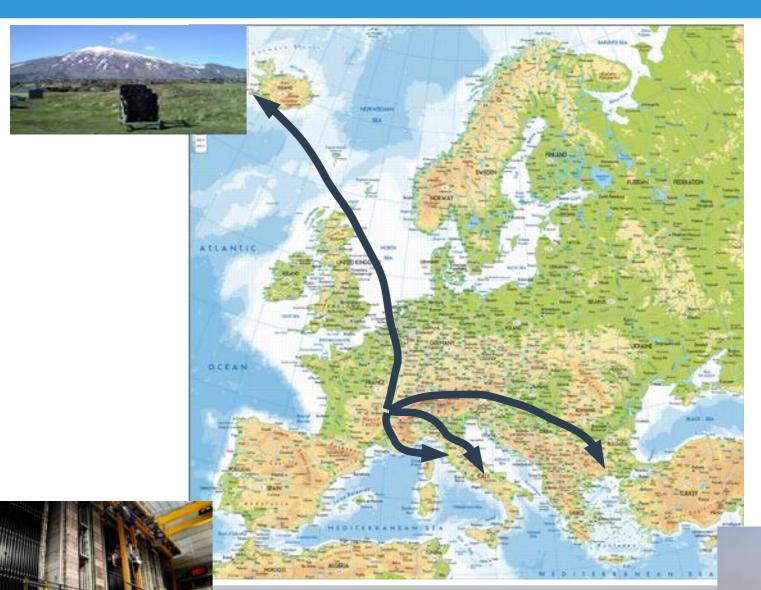
Stavros Katsanevas

Stavros & the smart sensors paradigm: tributes to muography (and more...)



Claude Girerd

A journey through greek/latine world



Lyon

CERN

LNGS

Cascina

Thessaloniki

etc etc

Gran Sasso



Pisa



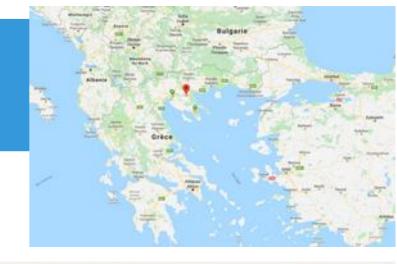


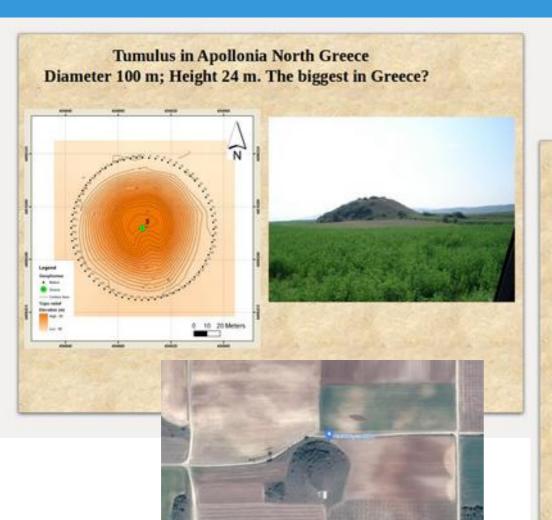
IL RITMO DELLO SPAZIO
LE RYTHME DE L'ESPACE
THE RHYTHM OF SPACE
INAUGURAZIONE SABATO 12 OTTOBRE ORE 18:00
12 OTTOBRE - 8 DICEMBRE 2019

Cascina



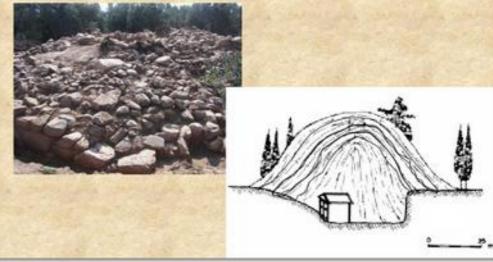
A massive "Macedonian-type" tumulus





CHALLENGES OF THE GEOPHYSICAL SURVEYS ON TUMULI

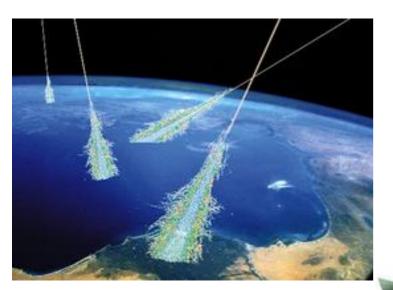
The material of the tumulus might be highly inhomogeneous (a fact that renders difficult the data interpretation). In some cases, stratification of the tumulus infill material has been observed.

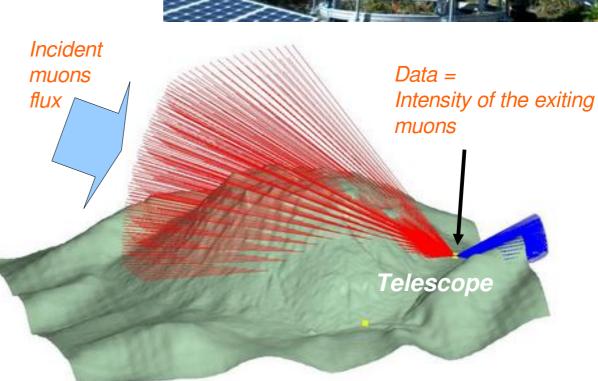


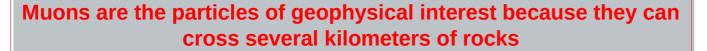
Muography imaging

Basic principles

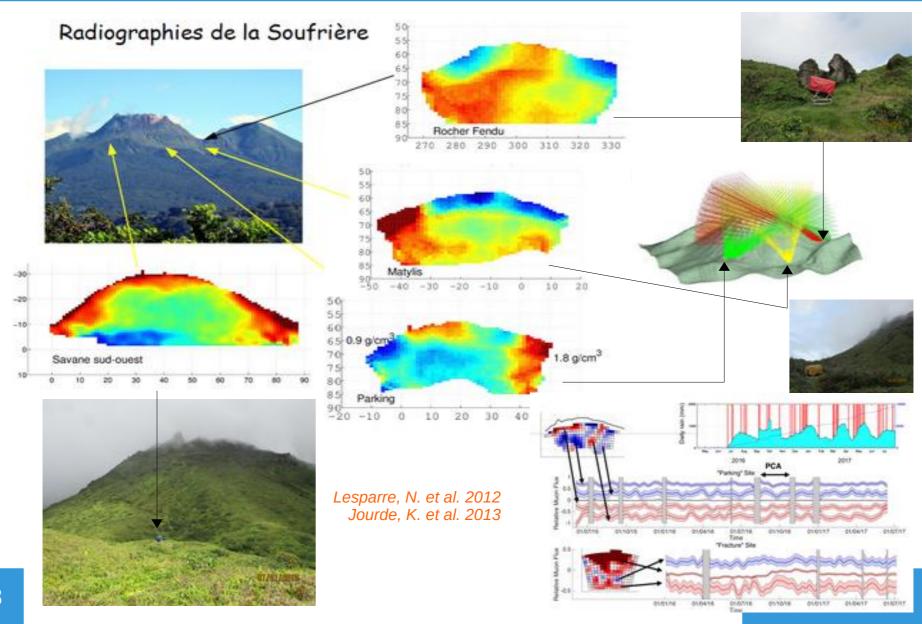
The particles energy loss along their trajectories is controlled by the amount of material encountered ⇒ " clinical radiography " by density contrast







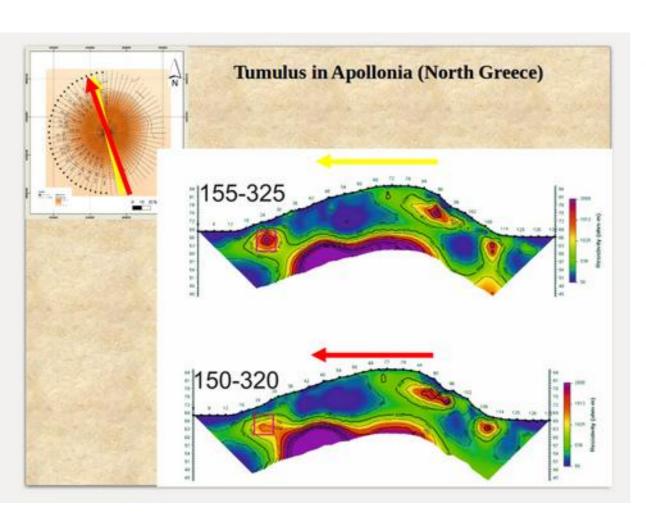
Results: structural & temporal imagery

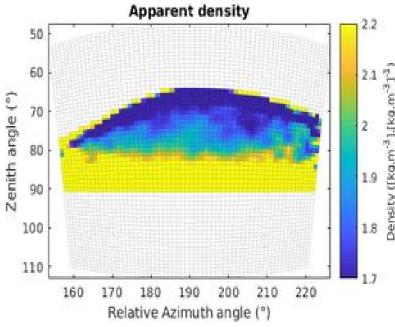


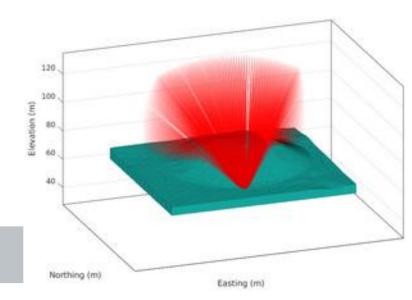
Tumulus & muon-mobile



Electrical & Apparent density







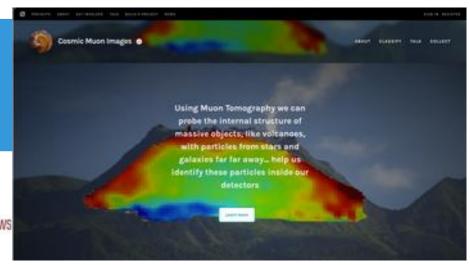
REINFORCE



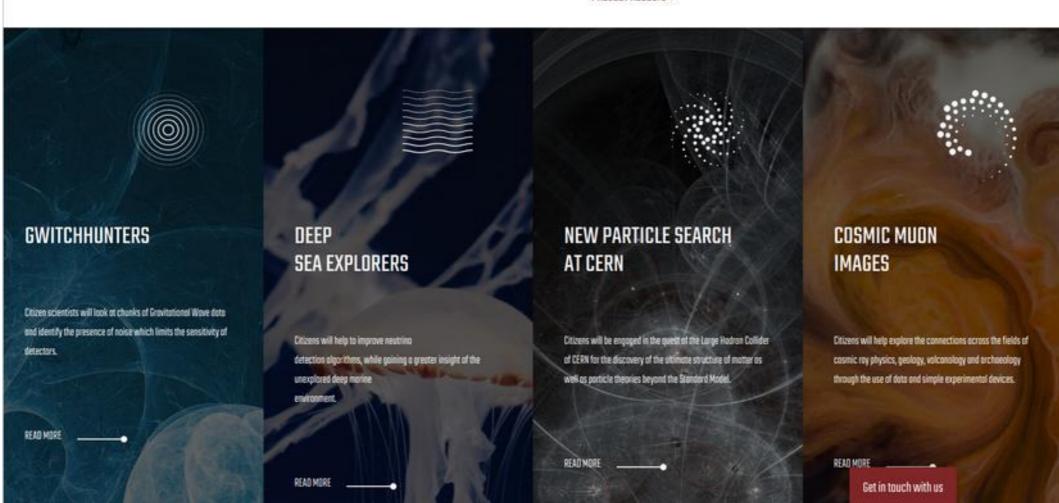
ABOUT -

DEMONSTRATORS ~

NEWS

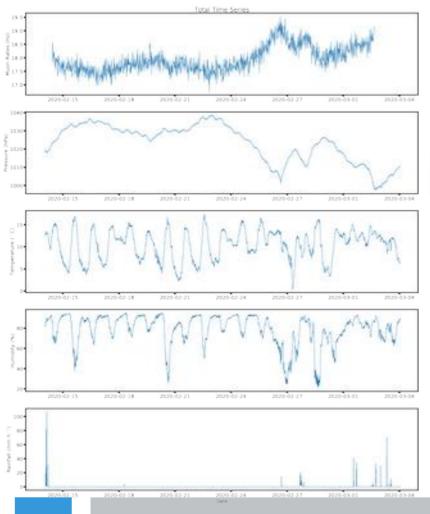


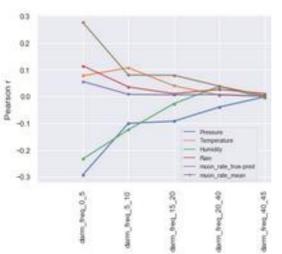
PROJECT RESULTS -



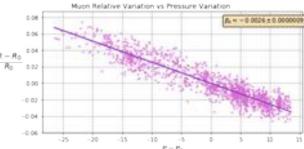
Cascina

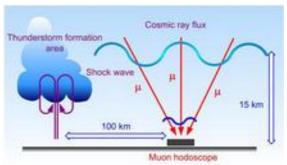
Investigate correlations: muon rates vs interferometer sensitivity











Results:

- Correlation between muon rates and GW detector,
- Muons monitor atmospheric phenomena,
- Atmosphere impacts Sensitivity

Greek times



