

# **Group of Applied Superconductivity**

## **Department of Quantum Matter Physics**

### **University of Geneva**

**Carmine SENATORE**

**FuSuMaTech Annual Meeting**

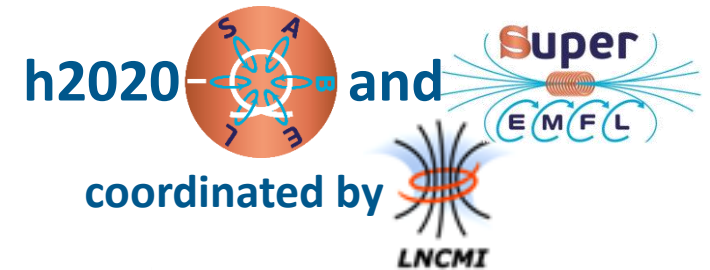
**14<sup>th</sup> December 2021**



**FuSuMaTech**

# Ongoing activities at

- Advanced LTS Nb<sub>3</sub>Sn superconductors for next generation particle colliders: wire R&D and investigations of the properties
- Effects of fast transient heating due to beam impact on the superconducting characteristics of LTS and HTS
- Magnetic properties of superconducting materials for RF cavities
- Applications of HTS REBCO coated conductors
  - Towards 20 T accelerator magnets for HEP and superconducting gantries for hadron therapy
  - Towards 1.3+ GHz NMR spectrometers (B = 30.5 T)
  - Towards 40 T superconducting magnets in EU user facilities for high-field science
  - Towards the integration of superconducting devices in the electric power infrastructure



# Swiss participation in Horizon Europe

Switzerland is at the moment a **non-associated third country** for the submission of project proposals in Horizon Europe and other related programs and initiatives

This status applies to the now open calls in 2022 until further notice

As a non-associated third country, project participants based in **Switzerland can still participate in the majority of collaborative projects**

The Swiss project partner will not be **funded by the Swiss State Secretariat for Education, Research and Innovation (SERI)**