

# LNS Activities on Applied Physics

LNS - User Committee\_2022

S. Tudisco

## **I-LUCE facility**



- BCT will fund a 45TW laser system;
- EuAPS, SAMOTHRACE and Anthem will fund the upgrade to 500TW, services and infrastructures
- aim: e- and proton acceleration to obtain "FLASH" regime and biological irradiation
- INFN will take care of the whole infrastructure and beams facility

First phase 1TW, 25fs, 30mJ, 10Hz and **45TW, <25fs, >1J, 5Hz** Upgradable to 300TW

Second phase **5**00TW, <25fs, >1J, 5Hz to 1PW, <25fs, 10J, 1Hz

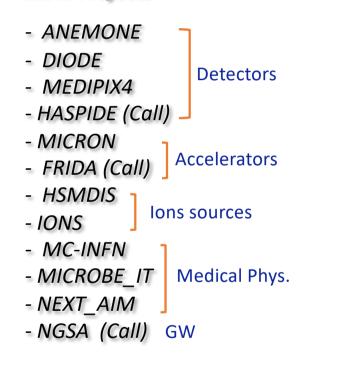




### CSN5 Activities 2022



#### **INFN Projects**



### GRV Total Budget 2022: 208,5 k€

