



# COST Action CA21128: "PROton BOron Nuclear fusion: from energy production to medical applicatiOns"

Working group meeting
Draft Agenda
28/04/2023 at 11:45:00
Face to face, Rethymno, Greece

# Aquila Rithymna Beach Hotel, Rethymno, Greece

11:45 – 12:15 Fabrizio Consoli, Laser-Initiated 11B( $p,\alpha$ )2 $\alpha$  fusion reactions in petawatt high-repetition-rates laser facilities

12:15 - 12:45 Lorenzo Giuffrida, Alpha particles generation using the secondary resonance of the proton-Boron fusion reaction triggered by a 10 GW tabletop laser

#### 12:45 – 14:00 Lunch

14:00-14:30 Dieter Hoffmann, Recent Results on Proton-11Boron Reaction obtained in Accelerator and Laser-Plasma Experiments

14:30 – 15:00 Pablo Cirrone, INFN-LNS, Italy - The "FUSION" Italian project and I-LUCE facility: goals and perspectives

15:00 – 15:30 Ales Ruzicka, Cationic polyhedral heteroboranes; chemically stable targets for PBCT

15:30 – 16:00 Francesco Cordella, Side-on GEM gas detectors for X-ray spectroscopy and Timpix3 for alpha detection in proton-boron fusion experiments

# 16:00 – 16:15 Coffee Break

16:15 – 16:45 Przemyslaw Tchorz, Novel approach to proton-boron fusion using protons generated through laser-induced thermonuclear DD reaction

16:45 - 17:15 Andre Di Fini, Machine learning to optimize the laser-driven proton spectra in a pitcher-catcher proton-11B fusion reaction scheme

17:15 - 17:45 Chrysovalanti Daponta, Investigation of the released p- $^{11}$ B fusion energy from proton beam interaction with  $^{11}$ B target

17:45 – 18:15 Reporting from PROBONO Group Leaders

18:15 – 19:00 General discussion

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