



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

Working group meeting Draft Agenda 28/04/2023 11:45

Face to face, Rethymno, Greece Aquila Rithymna Beach Hotel, Rethymno, Greece

Session 1, Chair: Dimitri Batani

11:45 – 12:15 Fabrizio Consoli, Laser-Initiated 11B(p,α)2 α 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

Session 2, Chair: Lorenzo Giuffrida

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, presented by Fabrizio Consoli

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

15:30 – 16:00 Przemyslaw Tchorz, Novel approach to proton-boron fusion using protons generated through laser-induced thermonuclear DD reaction

16:00 – 16:15 Coffee Break

Session 3, Chair: Daniele Margarone

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

16:45 - 17:15 Chrysovalanti Daponta, Investigation of the released p- 11 B fusion energy from proton beam interaction with 11 B target

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

17:45 – 19:00 General discussion

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