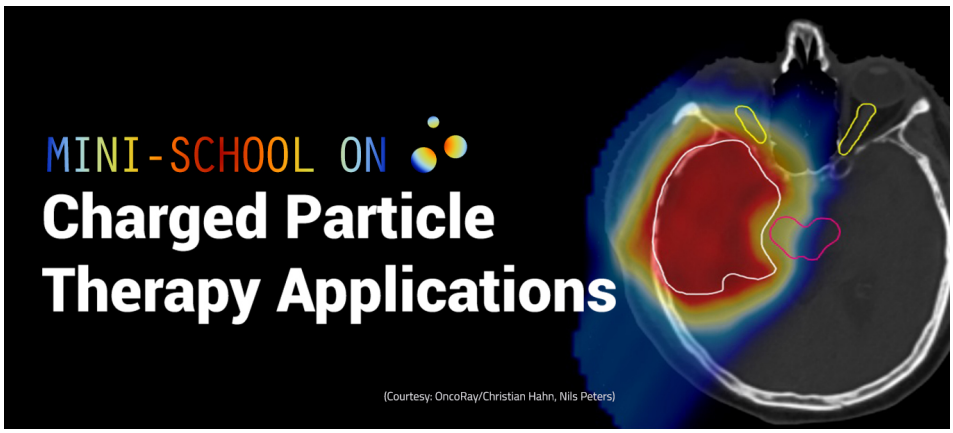
LIP Mini-School on Charged Particle Therapy Applications



Report of Contributions

https://indico.lip.pt/e/1068

Contribution ID: **1** Type: **not specified**

Prompt-Gamma range verification: Instrumentation with SiPM and ASICs

Saturday, 4 December 2021 09:30 (20 minutes)

Presenter: PATULEIA VENÂNCIO, José (LIP)

Session Classification: Range Verification

Contribution ID: **2** Type: **not specified**

Proton therapy monitoring with orthogonal prompt gamma imaging: the case of prostate irradiation

Saturday, 4 December 2021 09:50 (20 minutes)

Presenter: TEODORO, José

Session Classification: Range Verification

Contribution ID: **3** Type: **not specified**

Proton beam distal edge determination with a multi-slat prompt-gamma camera for pelvic irradiation

Saturday, 4 December 2021 10:10 (5 minutes)

Presenter: COSTA SILVA, João

Session Classification: Range Verification

Contribution ID: **4** Type: **not specified**

Online in-vivo range verification in particle therapy: a small introduction

Saturday, 4 December 2021 10:15 (5 minutes)

Presenter: BRÁS, Mariana

Session Classification: Range Verification

Contribution ID: **5** Type: **not specified**

Scintillating array for real-time high-resolution ion therapy dosimetry

Saturday, 4 December 2021 10:20 (20 minutes)

Presenter: GUERREIRO, Duarte (LIP)

Session Classification: Fibre Detector

Contribution ID: **6** Type: **not specified**

Characterization and functional test of a micro dosimeter of scintillating optical fiber

Saturday, 4 December 2021 10:40 (20 minutes)

Presenter: SANTOS, Matilde (LIP)

Session Classification: Fibre Detector

Contribution ID: **7** Type: **not specified**

Design of a fiber-phantom detector for quality assurance in PT

Saturday, 4 December 2021 11:00 (5 minutes)

Presenter: SALGUEIRO, Daniel

Session Classification: Fibre Detector

Contribution ID: **8** Type: **not specified**

Resistive Plate Chambers in Nuclear Medicine: the HiRezBrainPET

Saturday, 4 December 2021 12:15 (20 minutes)

Presenter: LOPES, Ana Luísa (LIP/UC)

Session Classification: Imaging

Contribution ID: **9** Type: **not specified**

MACACOp: a Compton Camera for hadron therapy treatment monitoring

Saturday, 4 December 2021 12:35 (20 minutes)

Presenter: VIEGAS, Rita

Session Classification: Imaging

Contribution ID: **10** Type: **not specified**

Comparison of Two 177Lu-DOTATATE Quantification Methods for Patient Personalized Dosimetry in Therapy of Neuroendocrine Tumors

Saturday, 4 December 2021 11:55 (20 minutes)

Presenter: RODRIGUES, Cristiana

Session Classification: Imaging

Contribution ID: **11** Type: **not specified**

My experience as a medical physicist at a proton therapy center

Saturday, 4 December 2021 11:35 (20 minutes)

Presenter: CAMBRAIA LOPES, Patrícia

Session Classification: Imaging

Contribution ID: **12** Type: **not specified**

Investigating Water Radiolysis with Monte Carlo algorithms for FLASH Delivery of Proton Mini- and Micro-Beams

Saturday, 4 December 2021 15:20 (20 minutes)

Presenter: MOLINA, Miguel

Session Classification: Minibeams

Contribution ID: **13** Type: **not specified**

A computational model for radiotherapy studies with protons and carbon ion mini-beams

Saturday, 4 December 2021 15:00 (20 minutes)

Presenter: ESPINHA, Claudia

Session Classification: Minibeams

Contribution ID: **14** Type: **not specified**

Dosimetry evaluation to advance charged particle minibeam radiotherapy

Saturday, 4 December 2021 15:40 (5 minutes)

Presenter: GIORGI, Maria

Session Classification: Minibeams

Contribution ID: **15** Type: **not specified**

FLASH optimization for multi-beam proton therapy

Saturday, 4 December 2021 16:05 (20 minutes)

Presenter: BALTASAR, Filipa

Session Classification: Flash therapy

Contribution ID: **16** Type: **not specified**

Developing Multi-Beam FLASH with Proton Beams

Saturday, 4 December 2021 15:45 (5 minutes)

Presenter: LEITÃO, Joana

Session Classification: Flash therapy

Contribution ID: **17** Type: **not specified**

Modeling the radiobiological effects of gold nanoparticles

Saturday, 4 December 2021 17:05 (20 minutes)

Presenter: ANTUNES, Joana (FCUL)

Session Classification: Nanoparticles

Contribution ID: **18** Type: **not specified**

Radiosensitizing effect of gold nanoparticles on pancreatic tumor cells

Saturday, 4 December 2021 17:25 (20 minutes)

Presenter: FERNANDES, Nísia

Session Classification: Nanoparticles

Contribution ID: **19** Type: **not specified**

Design and optimization of a phantom for radiobiology studies

Saturday, 4 December 2021 17:45 (5 minutes)

Presenter: ALMEIDA, Tomás

Session Classification: Nanoparticles

Contribution ID: **20** Type: **not specified**

Welcome and program presentation

Thursday, 2 December 2021 17:00 (20 minutes)

Presenter: GONÇALVES, Patrícia (LIP and Instituto Superior Técnico, Lisbon University)

Session Classification: Invited talks

Contribution ID: **21** Type: **not specified**

The ProtoTera Network Status

Thursday, 2 December 2021 17:20 (30 minutes)

Presenter: MARQUES, José (ProtoTera Association President - IST/CTN)

Session Classification: Invited talks

Contribution ID: **22** Type: **not specified**

Discussion

Thursday, 2 December 2021 17:50 (10 minutes)

Session Classification: Invited talks

Contribution ID: **23** Type: **not specified**

State of the art on FLASH Therapy

Friday, 3 December 2021 17:00 (40 minutes)

Presenter: SECO, João (DKFZ)

Session Classification: Invited talks

Contribution ID: **24** Type: **not specified**

Discussion

Friday, 3 December 2021 17:40 (10 minutes)

Session Classification: Invited talks

Contribution ID: **25** Type: **not specified**

Clinical practice

Monday, 6 December 2021 17:00 (40 minutes)

Presenter: MADALENO, Tiago (IPO Lisboa)

Session Classification: Invited talks

Contribution ID: **26** Type: **not specified**

Discussion

Monday, 6 December 2021 17:40 (10 minutes)

Session Classification: Invited talks

Contribution ID: **27** Type: **not specified**

New approaches on radioterapy

Tuesday, 7 December 2021 17:00 (40 minutes)

Presenter: PREZADO, Yolanda (Institut Curie, Université PSL, Orsay, France)

Session Classification: Invited talks

Contribution ID: **28** Type: **not specified**

Discussion

Tuesday, 7 December 2021 17:40 (10 minutes)

Session Classification: Invited talks

Contribution ID: **29** Type: **not specified**

Charged Particle therapy and CERN

Thursday, 9 December 2021 17:00 (40 minutes)

Presenter: DOSANJH, Manjit (CERN)

Session Classification: Invited talks

Contribution ID: **30** Type: **not specified**

Discussion

Thursday, 9 December 2021 17:40 (10 minutes)

Session Classification: Invited talks

Contribution ID: **31** Type: **not specified**

The effects of proton therapy on protein self-organization: potential benefits for neurodegenerative disorders

Saturday, 4 December 2021 15:50 (5 minutes)

Presenter: COELHO, Carina (LIP)

Session Classification: Flash therapy

Contribution ID: **32** Type: **not specified**

Modelling protein amyloid structures and observing the effects of radiation using the GEANT4-DNA toolkit

Saturday, 4 December 2021 15:55 (5 minutes)

Presenter: PEREIRA, Lia (LIP)

Session Classification: Flash therapy

Contribution ID: **33** Type: **not specified**

Development of a Standard Methodology for Online Dose Calculation in Air

Saturday, 4 December 2021 16:00 (5 minutes)

Presenter: PESTANA, Rita (LIP)

Session Classification: Flash therapy