

Editorial Board Report

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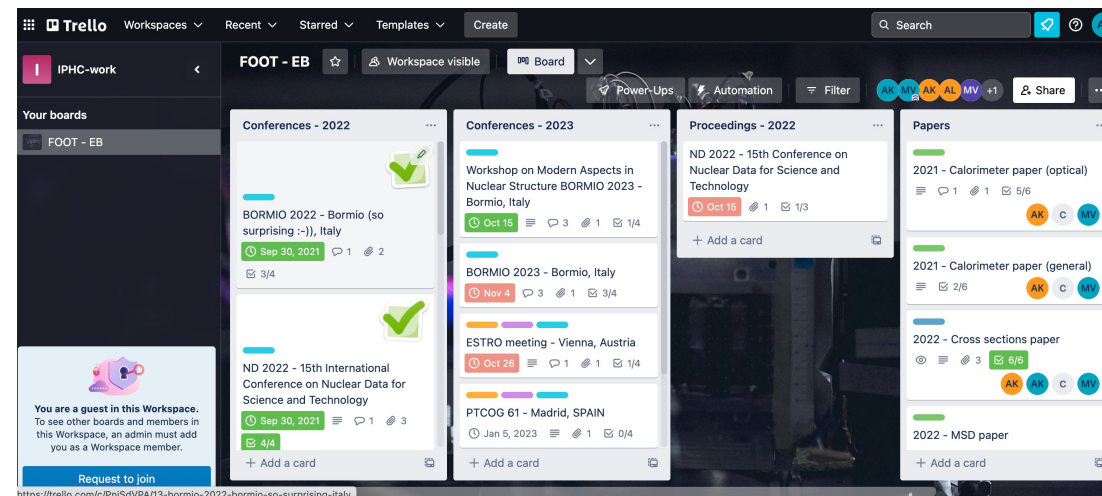


Outline

- EB Meetings and internal working
- Papers
 - Published
 - Submitted
 - Started
- Authorship
- Conferences
 - Talks and posters given
- Forthcoming conferences

EB Meetings and internal working

- Meetings every 4 weeks continue...
- Repository of relevant information on Google docs
- Work management on Trello
- Effective work sharing:
 - Papers/proceedings are reviewed by all EB members
 - Conference searches by all
 - Conference advertisements is done by all EB members
 - Every interesting conference is assigned to one EB member
 - Follow the candidate speakers or poster presenters in all phases
 - Abstract submission/presentation rehearsal/proceeding writing and submission



Papers – published in 2021

1. I. Mattei et al, *Measurements of ^{12}C fragmentation cross sections on C, O and H in the energy range of interest for particle therapy applications*, IEEE TRPMS. **4**
2. L. Galli et al, *Fragment charge identification technique with a plastic scintillator detector using clinical carbon beams*, NIM A **953**
3. Y. Dong et al, *The Drift Chamber detector of the FOOT experiment: Performance analysis and external calibration*, NIM A **986 (2021) 164786**
4. M. Morrocchi et al, *Performance Evaluation of the TOF-Wall Detector of the FOOT Experiment*, IEEE Trans. Nucl. Sci. (doi:10.1109/TNS.2020.3041433)
5. G. Battistoni et al, *Measuring the impact of Nuclear Interaction in Particle Therapy and in Radio Protection in Space: the FOOT experiment*, Front. Phys. **8 (2021) 568242**
6. A. C. Kraan et al, *Charge identification of nuclear fragments with the FOOT Time-Of-Flight system*, NIM A **1001 (2021) 165206**
7. G. Galati et al, *Charge identification of fragments with the emulsion spectrometer of the FOOT experiment*, Open Physics **(2021)**, vol. 19, no. 1, pp 383-394.

Papers – published in 2022

1. M. Toppi, et al, *Elemental fragmentation cross sections for a ^{16}O beam of 400 MeV/u kinetic energy interacting with a graphite target using the FOOT ΔE -TOF detectors*, Front. Phys., 2 November 2022, Sec. Medical Physics and Imaging, Research Topic: Breakthrough in Particle Therapy: At the Edge of Physics, Biology and Medicine, See <https://doi.org/10.3389/fphy.2022.979229>
2. G. Silvestre et al, *Characterization of 150 micrometer thick silicon microstrip prototype for the FOOT experiment*, accepted in JINST 2022
https://jinst.sissa.it/jinst/author/docPage.jsp?docPgType=work&docId=JINST_070P_0922

Proceedings published:

1. K. Kanxheri^{6,1} et al, *The Microstrip Silicon Detector (MSD) data acquisition system architecture for the FOOT experiment 2022*, Journal of Instrumentation, Volume 17, March 2022 DOI 10.1088/1748-0221/17/03/C03035 (Topical Workshop on Electronics for Particle Physics 2021, 20–24 September, 2021)
2. L. Galli, et al, *The fragmentation trigger of the FOOT experiment*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 1046, 2023, 167757. 15th Pisa Meeting on Advanced Detectors, Elba, 2022,
<https://doi.org/10.1016/j.nima.2022.167757>
3. A.C. Kraan et al, *Calibration and performance assessment of the TOF-Wall detector of the FOOT experiment*, NIMA:, Volume 1045, 2023, 167615, 15th Pisa Meeting on Advanced Detectors, Elba, 2022, <https://www.sciencedirect.com/science/article/abs/pii/S016890022200907X>
4. A. De Gregorio, *Measurements of the ^{16}O cross section on a C target with the FOOT apparatus*, Nuovo Cim.C 45 (2022) 6, 194, Contribution to: [SIF 2021](#), 194

To be published soon 3 more works:

- Zarrella (ND22),
- Silvestre (Pisa meeting NIMA)
- Ridolfi (Pisa meeting NIMA)
- Ubaldi (Nuovo Cim.)

Papers in the writing stage

- 1 *FOOT for the Moon, Mars and beyond: current status and first cross section measurements for space radioprotection* , to be submitted to *Frontiers in Physics*
- 2 *Charge identification of fragments produced by interaction of ^{16}O beam at 200 and 400 MeV/u on C and C_2H_4 target* , emulsion group, to be submitted to JINST
- 3 *Calorimeter performance* (Torino group)
- 4 *A new photon calibration method for silicon microstrip sensors* (Perugia group)
- 5 *Construction and commissioning of the MicroStrip Detector for the FOOT experiment* (Perugia group)

Authorship 2022

overleaf.com/project/634fec9cc1489e0295c42863

author_listFOOT_ott2022

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43 \author[2,1]{Ciarrocchi Esther}\ \ % GB 15/01/21 . Senza
    contratto da fine gennaio.
44 \author[7]{Clozza Alberto}\ \
45 \author[15,16]{Colombi sofia}\ \
46 \author[12,26]{De~Gregorio Angelica}\ \ % added on 09/2022
47 \author[10,19]{De~Lellis Giovanni}\ \
48 \author[2,1]{De~Guerra Alberto}\ \
49 \author[12]{De~Simoni Mico}\ \
50 \author[10,19]{Di~Crescenzo Antonia}\ \
51 \author[15]{Di~Ruzza Benedetto} \ \ % FT 21/01/20
52 \author[5,17]{Donetti Marco}\ \
53 \author[8]{Dong Yunsheng}\ \
54 \author[6,32]{Durante Marco}\ \
55 %\author[8]{Embriaco Alessia}\ \ GB 19/1/2020
56 %\author[3]{Emde Max} \ \ RH 21/1/2020
57 \author[12,26]{Faccini Riccardo}\ \ %AS 21/01/20
58 \author[17]{Ferrero Veronica} \ \ %PC 20/1/2020 %MGB 20/01/20
59 %\author[12,26]{Ferroni Fernando} \ \ AS 21/01/20
60 %\author[11,24]{Fiandrini Emanuele}\ \ removed on 14/10/2022
61 \author[14]{Finck Christian}\ \
62 \author[17]{Fiorina Elisa} \ \ %PC 20/1/2020
63 \author[22]{Fischetti Marta}\ \
64 \author[2,1]{Francesconi Marco}\ \
65 \author[4,20]{Franchini Matteo}\ \
66 \author[12,26]{Franciosini Gaia}\ \ % AS 21/01/20
67 \author[35]{Galati Giuliana}\ \
68 \author[1]{Galli Luca}\ \
69 %\author[4,20,21]{Garbini Marco}\ \ RS 19/1/2020
70 %\author[31]{Gentile Valeria}\ \ removed sept 2021
[22]Fischetti Marta
[2,1]Francesconi Marco
[4,20]Franchini Matteo
[12,26]Franciosini Gaia
[35]Galati Giuliana
[1]Galli Luca
[17]Girauda Giuseppe
[3]Hetzel Ronja
[7]Iarocci Enzo
[11]Ionica Maria
[10,19]Iuliano Antonio
[11]Kaxheri Keida
[1]Kraan Aafke Christine
[15,16]La Tessa Chiara
[7]Laurenza Martina
[10,19]Lauria Adele
[30,17]Lopez Torres Ernesto
[4,20]Manna Alice
[12,21]Marafini Michela
[1]Massa Maurizio
[4,20]Massimi Cristian
[8]Mattei Ilaria
[5]Mereghetti Alessio
[4]Mengarelli Alberto
[1]Moggi Andrea
[10,19]Montesi Maria Cristina
[13,27]Morone Maria Cristina
[1,2]Morrocchi Matteo
[8]Muraro Silvia
[29]Pastore Alessandra
[17]Pastrone Nadia
[12,22]Patera Vincenzo
[11,24]Peverini Francesca
[17]Pennazio Francesco
[11,25]Placidi Pisana
[5]Pullia Marco
[17,18]Ramello Luciano
[6]Reidel Claire-Anne
[4,20]Ridolfi Riccardo
[2,1]Rosso Valeria
[11,24]Salvi Lucia
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- You can contact us for latex file, available on overleaf
- We are still (too) many ...

Conferences

2018

☐ Talks: 12

☐ Posters: 7

2019

☐ Talks: 20

☐ Posters: 2

2020

☐ Talks: 13

☐ Posters: 3

2021

☐ Talks: 11

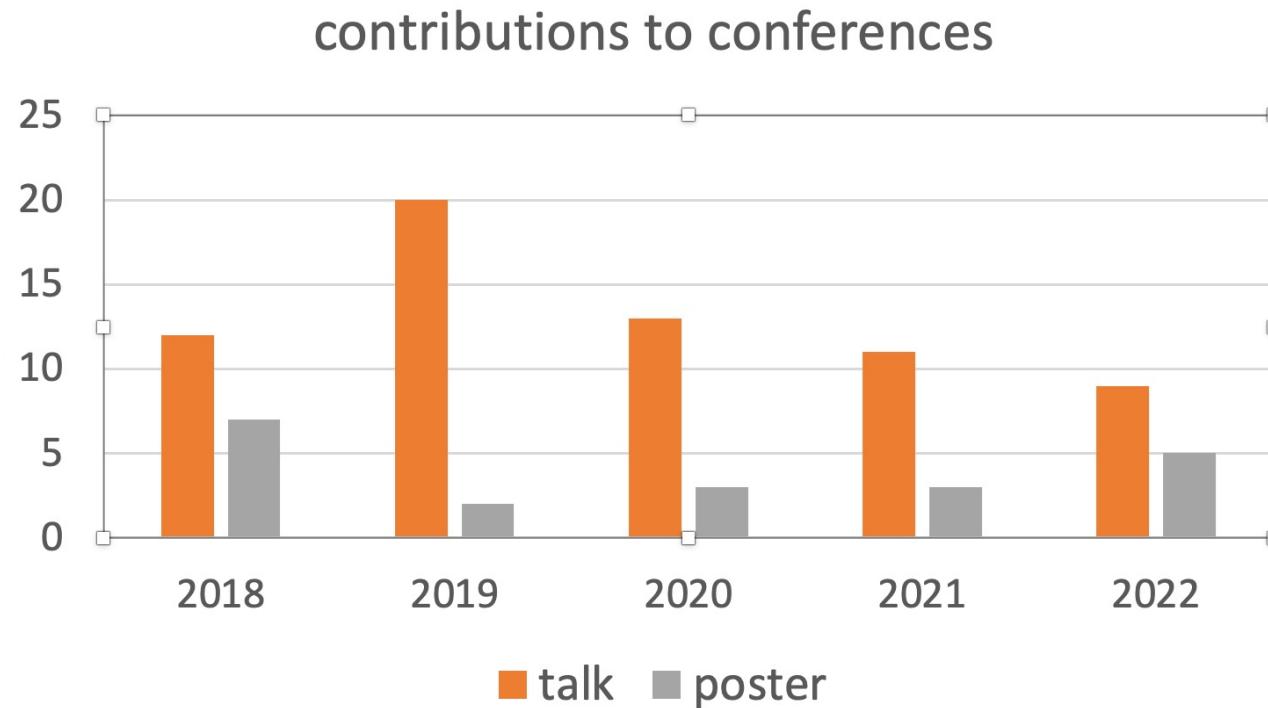
☐ Posters: 3

2022

☐ Talks: 9

☐ Posters: 6

Nice presence in conferences!



Since beginning of 2022...

Conference	Location	Dates	Website	FOOT presenter	Contribution title	oral/poster	Proceeding	Published on:	Notes			
BORMIO 2022	Bormio, Italy	24-28/01/2022	https://indico.mitp.uni-mainz.de/event/239/	A. de Gregorio	Measurement of 16O fragmentation cross sections on C target with the FOOT apparatus	suppressed for COVID						
ND 2022	online	24-27/07/2022	https://indico.bnl.gov/event/9462/	C. Massimi	Neutron production cross section measurements with FOOT	Poster	no					
				R. Zarrella	Nuclear fragmentation cross section measurements with the FOOT experiment	Oral	Yes	yes	invited talk			
15th Pisa Meeting on Advanced Detectors	Pisa, Italy	22-28/05/2022	https://agenda.infn.it/event/22092/	M. Morrocchi	Calibration and performance assessment of the TOF-Wall detector of the FOOT Experiment	Oral	Yes	NIM-A				
				G. Silvestre	Characterisation of the Microstrip Silicon Detector for the FragmentatiOn Of Target experiment	poster	yes	NIM-A				
				L. Galli	The fragmentation trigger of the FOOT experiment	Poster	Yes					
INPC 2022	Cape Town, South Africa	11-16/09/2022	https://inpc2022.org	P. Cerello	The FOOT experiment: measuring nuclear fragmentation for particle therapy and space radioprotection applications	Oral	No					
IWoRID 2022	Riva del Garda, Italy	26-30/06/2022	https://event.unitn.it/iworid2022/#home	N. Bartosik	Design and performance of the FOOT calorimeter with particle-ID capabilities	Poster	No					
55 Zakopane Conference on Nuclear Physics	Zakopane, Poland	8/28/22	https://zakopane2022.ifj.edu.pl/general-info/	-								
IEEE NSS-MIC 2022	Milano, Italy	05-12/11/2022	https://nssmic.ieee.org/2022/	Y. Dong	Nuclear fragmentation cross sections measurements for hadrontherapy and space radioprotection: the FOOT experiment	Oral	no					
				A. Kraan	Fragment charge identification in nuclear interactions in the therapeutic energy range with plastic scintillators	Oral						
Radiation Research Annual Meeting 2022	Hawaii, Us	16-19/10/2022		-								
Beam Telescopes and Test Beams Workshop*	Lecce, Italy	20-24/06/2022	https://indico.cern.ch/event/1058977/	S. Colombi	Future perspective of the FOOT experiment for neutrons identification	Oral	no					
Quinto Incontro Nazionale di Fisica Nucleare INFN 2022	Gran Sasso, Italy	09-11/05/2022	https://agenda.infn.it/event/22084/	M. Morrocchi	The FOOT (Fragmentation of Target Experiment): experiment overview and initial results	Oral	no					
SIF 2022	Milano, Italy	12-16/09/2022	https://www.sif.it/attivita/congresso/108	G. Ubaldi	The FOOT experiment: a first measurement for nuclear fragmentation cross section for hadrontherapy	Oral	yes	Nuovo cimento	best communication			
				G. Galati	will not participate as poster	Poster (online)						
FRPT 2022	Barcelona, Spain	30/11-02/12/2022	https://frpt-conference.org/	Y. Dong	Fragmentation cross sections measurements for hadrontherapy: the FOOT experiment	Poster	no					
EuNPC 2022	Santiago de Compostela, Spain	24-28/10/2022	https://indico.cern.ch/event/104299/	R. Ridolfi	Nuclear fragmentation cross section measurements with the FOOT experiment	Oral	yes					

Forthcoming conferences

- PTCOG61, Spain, June 2022
- Zakopane conference, at the end of August 2022.
- iWorld2023 (we maybe have a volunteer)
- IEEE NSS-MIC 2022, Vancouver, November 2022. (we have two volunteers)

- We believe we can send more than 1 abstract for a conference!

LOOKING FOR VOLUNTEERS



Last but not least: the FOOT website



SHOULD BE UPDATED

Summary

- Papers, presentations and proceedings have been produced
- New data will give us new opportunities for **papers** and **presentations** to conferences.

**From the Editorial board, thank you
for your help and collaboration!**

Since beginning of 2022...

WebsiteYY	FOOT presenter	Contribution title	Accepted	Proceeding
https://indico.mitp.uni-mainz.de/event/239/	A. de Gregorio	Measurement of 16O fragmentation cross sections on C target with the FOOT apparatus		
https://indico.bnl.gov/event/9462/	C. Massimi	Neutron production cross section measurements with FOOT	Poster	
	R. Zarrella	Nuclear fragmentation cross section measurements with the FOOT experiment	Oral	Yes
https://agenda.infn.it/event/22092/	M. Morrocchi	Calibration and performance assessment of the TOF-Wall detector of the FOOT Experiment	Oral	Yes
	G. Silvestre	Characterisation of the Microstrip Silicon Detector for the FragmentatiOn Of Target experiment	Poster	Yes
	L. Galli	The fragmentation trigger of the FOOT experiment	Poster	Yes
https://inpc2022.org	P. Cerello	The FOOT experiment: measuring nuclear fragmentation for particle therapy and space radioprotection applications	Oral	
https://event.unitn.it/iworid2022/#home	N. Bartosik	Design and performance of the FOOT calorimeter with particle-ID capabilities	Poster	
https://nssmic.ieee.org/2022/	Y. Dong	Nuclear fragmentation cross sections measurements for hadrontherapy and space radioprotection: the FOOT experiment	Oral	No
	A. Kraan	Fragment charge identification in nuclear interactions in the therapeutic energy range with plastic scintillators	Oral	No
https://indico.cern.ch/event/1058977/	S. Colombi	Future perspective of the FOOT experiment for neutrons identification	Oral	No
https://agenda.infn.it/event/22084/	M. Morrocchi	The FOOT (Fragmentation of Target Experiment): experiment overview and initial results	Oral	Yes
https://www.sif.it/attivita/congresso/108	G. Ubaldi	The FOOT experiment: a first measurement for nuclear fragmentation cross section for hadrontherapy	Oral	No
https://indico.cern.ch/event/1104299/	R. Ridolfi	Nuclear fragmentation cross section measurements with the FOOT experiment	Oral	No