

Welcome to the 13th Terascale Detector Workshop

13th Terascale Detector Workshop

6-8 April 2021
Virtual
Europe/Berlin timezone

Overview

Timetable

Contribution List

Author List

My Conference

My Contributions

Registration

Participant List

The virtual workshop will take place from 6. April 2021 lunch time till 8. April 2021 lunch time. It is free of charge.

For the workshop the following topical sessions are planned:

- Axion Detection Techniques and Low Background Experiments
- Machine Learning for Detectors
- Technologies for future upgrades

Join Zoom Meeting <https://desy.zoom.us/j/91422331051>

Meeting ID: 914 2233 1051 Passcode: 593681



Starts Apr 6, 2021, 2:00 PM
Ends Apr 8, 2021, 7:00 PM
Europe/Berlin



Virtual
Zoom



Andreas Mussgiller
Doris Eckstein

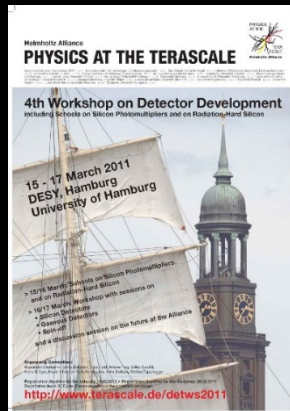
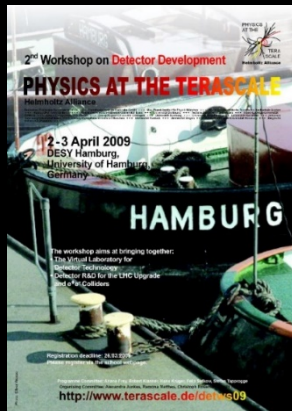


Old Poster from 2020
[2020-03-Detector-Workshop-Poster_WEB.pdf](#)

6.4. – 8.4. 2021

Lutz Feld

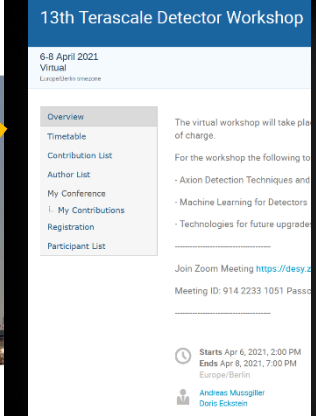
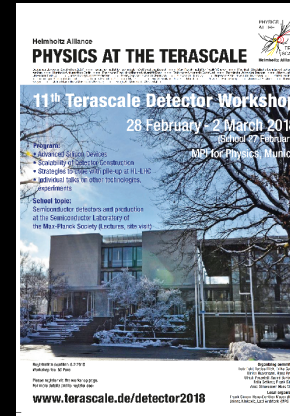
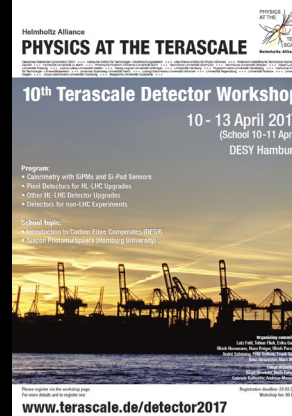
(Chair Scientific Organizing Committee)



2008 Karlsruhe 2009 Hamburg 2010 Heidelberg 2011 Hamburg 2012 Bonn 2013 Mainz 2014 Göttingen

topcal sessions

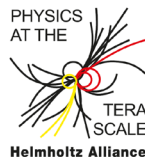
schools



2015 Berlin 2016 Freiburg 2017 Hamburg 2018 München 2019 Dresden 2020 Hamburg 2021 Online

Helmholtz Alliance

PHYSICS AT THE TERASCALE



Deutsches Elektronen-Synchrotron DESY ++ Karlsruher Institut für Technologie - Großforschungsbereich ++ Max-Planck-Institut für Physik München ++ Rheinisch-Westfälische Technische Hochschule Aachen ++ Humboldt-Universität zu Berlin ++ Rheinische Friedrich-Wilhelms-Universität Bonn ++ Technische Universität Dortmund ++ Technische Universität Dresden ++ Albert-Ludwigs-Universität Freiburg ++ Justus-Liebig-Universität Gießen ++ Georg-August-Universität Göttingen ++ Universität Hamburg ++ Ruprecht-Karls-Universität Heidelberg ++ Karlsruher Institut für Technologie - Universitätsbereich ++ Johannes Gutenberg-Universität Mainz ++ Ludwig-Maximilians-Universität München ++ Universität Regensburg ++ Universität Rostock ++ Universität Siegen ++ Julius-Maximilians-Universität Würzburg ++ Bergische Universität Wuppertal ++

13th Workshop on Detector Development

17 - 20 March 2020

(School 17-18 March)

DESY Hamburg

Program:

- Axion Detection Techniques and Low Background Experiments
- Machine Learning for Detectors
- Technologies for future upgrades
- Non-accelerator experiments, neutrino experiments, small LHC experiments

School topic:

Quality Assurance in Detector Assembly



Registration deadline: 02.03.2020
Workshop fee: 60 Euro

Please register via the workshop page.
For more details and to register see:

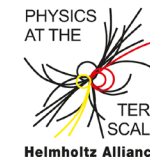
www.terascale.de/detws2020

Organizing committee:
Doris Eckstein, Lutz Feld, Tobias Flick,
Erika Garutti, Ulrich Husemann, Hans Krüger,
Lucia Massetti, Frank Meier, Andreas Mussgiller,
Ulrich Parzefall, Felix Sefkow, Frank Simon,
Arno Straessner, Marc Weber

Local organizers:
Birgit Breetzke, Doris Eckstein,
Gabriele Kalhoefer, Andreas Mussgiller

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13th Workshop on Detector Development

6 – 8 April 2021 online

Program:

- Axion Detection Techniques and Low Background Experiments
- Machine Learning for Detectors
- Technologies for future upgrades

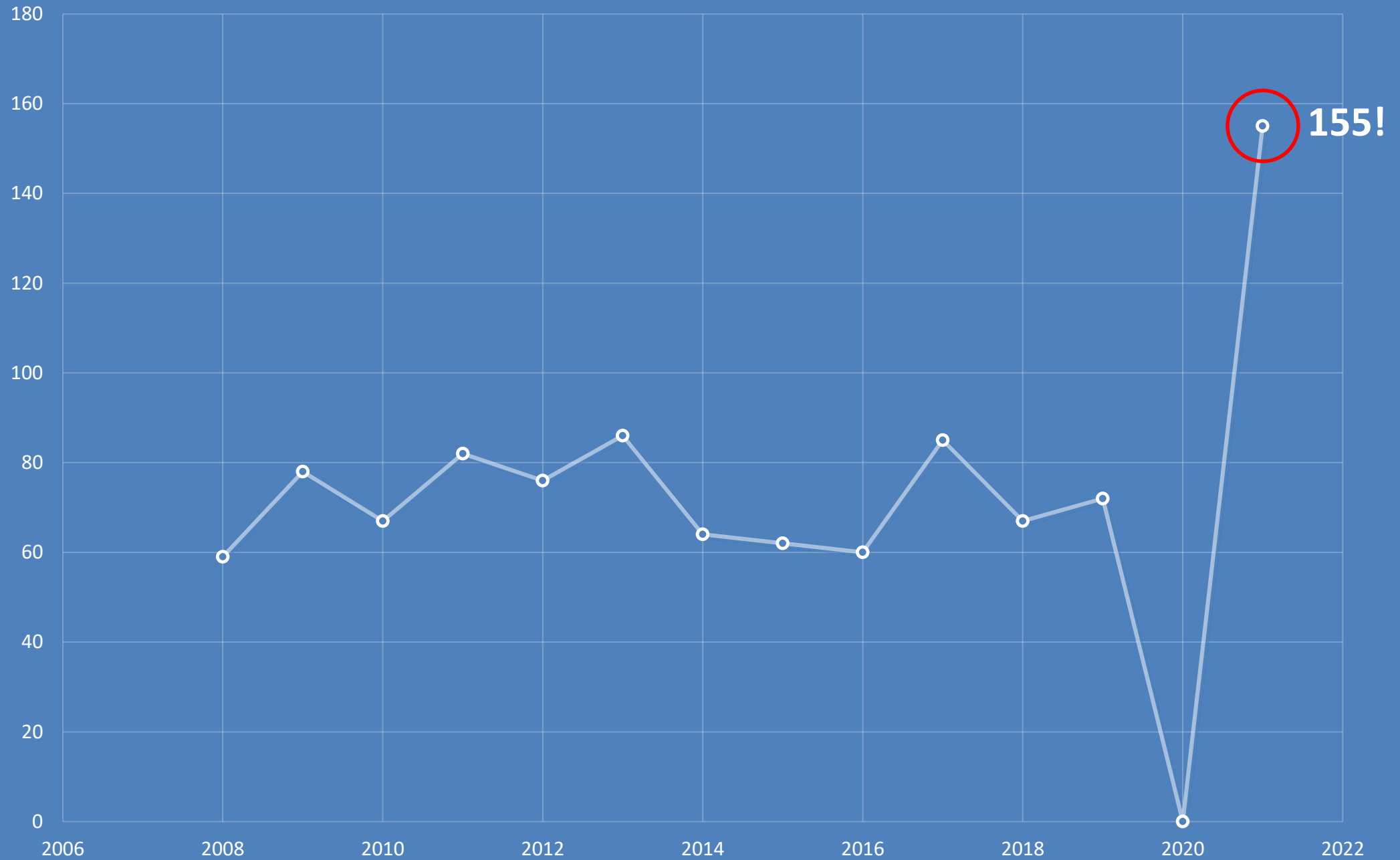
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Ulrich Parzefall, Felix Sefkow, Frank Simon,
Arno Straessner, Marc Weber
Hans-Christian Schulz-Coulon

Local organizers:

Doris Eckstein,
Andreas Mussgiller

WORKSHOP PARTICIPANTS



Programme Overview

Tuesday

Machine Learning for Detectors

14:00	Welcome <i>Zoom, Virtual</i>	<i>Lutz Feld</i> 14:00 - 14:15	
	Machine Learning for Detectors - Overview <i>Zoom, Virtual</i>	<i>Gregor Kasieczka</i> 14:15 - 14:40	
	Machine Learning for Particle Tracking <i>Zoom, Virtual</i>	<i>Waleed Ahmed Esmail</i> 14:45 - 15:10	
15:00	Deep Learning for Fast Detector Simulation <i>Zoom, Virtual</i>	<i>Sofia Valleccorsa</i> 15:15 - 15:40	
	Break and Discussion	15:45 - 16:05	
	Machine Learning with FPGAs for Trigger and Detector Systems <i>Zoom, Virtual</i>	<i>Vladimir Loncar</i> 16:10 - 16:35	
	Predictive maintenance <i>Zoom, Virtual</i>	<i>Michael Beigl</i> 16:40 - 17:05	
17:00	AIDAInnova <i>Zoom, Virtual</i>	<i>Dr Felix Seifkow</i> 17:10 - 17:25	
	Discussion	17:30 - 17:50	
18:00	Virtual Reception (Wonder.me)		
	<i>wonder.me</i>	18:00 - 19:00	
19:00			

Wednesday

Technologies for future upgrades

09:00	ALICE ITS upgrade for LS3 <i>Zoom, Virtual</i>	<i>Magnus Mager</i> 09:00 - 09:25
	Timing Sensors in 3D Technology <i>Zoom, Virtual</i>	<i>Gregor Kramberger</i> 09:30 - 09:55
10:00	RD50 <i>Zoom, Virtual</i>	<i>Dr Michael Moll</i> 10:00 - 10:25
	Break and Discussion <i>Zoom, Virtual</i>	10:30 - 10:50
	LHCbpost-LS2Upgrades <i>Zoom, Virtual</i>	<i>Paula Collins</i> 10:50 - 11:15
11:00	TORCH <i>Zoom, Virtual</i>	<i>Neville Harnew</i> 11:20 - 11:45
	Discussion <i>Zoom, Virtual</i>	11:50 - 12:10
12:00	Detector Board Meeting	
13:00	<i>Zoom, Virtual</i>	12:20 - 13:20

Thursday

Axion detection techniques and low background experiments

09:00	SuperCDMS <i>Zoom, Virtual</i>	<i>Belina von Krosigk</i> 09:00 - 09:25
	ECHO <i>Zoom, Virtual</i>	<i>Dr Loredana Gastaldo</i> 09:30 - 09:55
10:00	Discussion and break <i>Zoom, Virtual</i>	10:00 - 10:20
	ALPS <i>Zoom, Virtual</i>	10:20 - 10:45
	IAXO <i>Zoom, Virtual</i>	<i>Esther Ferrer Ribas</i> 10:50 - 11:15
11:00	MADMAX <i>Zoom, Virtual</i>	<i>Xiaoyue Li</i> 11:25 - 11:50
	Discussion <i>Zoom, Virtual</i>	11:55 - 12:15
12:00	closeout <i>main Auditorium, DESY Hamburg</i>	12:15 - 12:35

This is a workshop:
There is time for questions and discussion!
after each talk and
during virtual breaks