

Publications and Presentations

Notes and Manuscripts

- [LDMX Design Study Paper](#) (Aug 14, 2018)
- [A high efficiency photon veto for the Light Dark Matter eXperiment](#) (Published April 2020)
- [Snowmass Contribution](#) (March 2022) - Current Status and Future Prospects for the Light Dark Matter eXperiment

Conferences

Conference	Speaker	Talk Title	Talk Type	Slides/Proceedings
MEPA 2023	Bertrand Echenard	The LDMX experiment	Contributed	slides
PIC 2023	Christian Herwig	LDMX: The Light Dark Matter eXperiment	Contributed	slides
Light Dark World 2023	Jeremiah Mans	The Light Dark Matter eXperiment (LDMX)	Contributed	slides
EPS-HEP2023	Hannah Herde	The Light Dark Matter eXperiment (LDMX)	Contributed	https://www.eps-hep2023.eu , https://indico.desy.de/event/34916/contributions/147427/
Physics Society of the Philippines SPP 2023 Siargao, Philippines	Matt Solt	Exploring Light Dark Matter at Accelerators: HPS and LDMX	Invited	slides
Virginia Academy of Science Annual Meeting 2023	Jessica Pascadillo	Introducing the Light Dark Matter eXperiment (LDMX)	Parallel	slides
Aspen 2023	Cristina Mantilla	LDMX: The Light Dark Matter eXperiment	Contributed	slides
DIS 2023	Matt Solt	LDMX: The Light Dark Matter eXperiment	Contributed	slides
MEPA 2022	Matt Solt	LDMX: The Light Dark Matter eXperiment	Invited	slides
IPA2022	Craig Dukes	LDMX: A Search for Dark Matter Using a High Intensity Electron Beam	Contributed	slides
CIPANP2022	Matt Solt	Dark Matter at Accelerators: HPS and LDMX	Parallel	slides
NuFACT2022	Matt Solt	LDMX: The Light Dark Matter eXperiment	Parallel/Poster	slides Poster - pdf, google slides Award-winning poster talk proceedings
ICHEP2022	Hannah Herde	LDMX: The Light Dark Matter eXperiment	Parallel	slides
New Perspectives Fermilab (hybrid), June 16-22, 2022	Jessica Pascadillo	Detecting Dark Matter with the Light Dark Matter eXperiment	Contributed	slides
PPC2022	Craig Group	LDMX: The Light Dark Matter eXperiment	Contributed	slides
La Thuile - March 06-12, 2022	Pierfrancesco Butti	The Light Dark Matter eXperiment, LDMX	Invited	slides
APS SESAPS 2021 - November 18-20, 2021	Matt Solt	Dark Matter at Accelerators - the Heavy Photon Search and the Light Dark Matter eXperiment	Invited	slides
New Perspectives Fermilab (virtual) Aug. 16-19	Chloe Greenstein	Kaon production in LDMX	Contributed	pdf
New Perspectives Fermilab (virtual) Aug. 16-19	Laura Zichi	Improving Neutrino Interaction Modeling with Electron Scattering Measurements in LDMX	Contributed	pdf
New Perspectives Fermilab (virtual) Aug. 16-19	Tyler Horoho	Simulating photonuclear background in the hadron calorimeter for the Light Dark Matter eXperiment	Contributed	pdf

New Perspectives Fermilab (virtual) Aug. 16-19	Matt Solt	The Light Dark Matter eXperiment, LDMX	Contributed	pdf , Google slides
54th Fermilab Users Meeting	Emrys Peets	The Light Dark Matter eXperiment, LDMX	Poster	Poster
EPS 2021 (virtual)	Emrys Peets	The Light Dark Matter eXperiment, LDMX	Poster	Poster
APS 2021 (virtual)	Sophie Middleton	The Light Dark Matter eXperiment (LDMX)	Parallel	
vCHEP 2021 (virtual)	Lene Kristian Bryngemark	Building a Lightweight Distributed Computing System for LDMX	Parallel	Slides: pdf
DIS 2021 (virtual)	Lene Kristian Bryngemark	The Light Dark Matter eXperiment (LDMX)	Parallel	slides
PHENO 2021 (virtual)	Christian Herwig	The Light Dark Matter eXperiment (LDMX)	Parallel	slides
FIPS2020 (virtual)	Bertrand Echenard	Search for FIPs with experiments at extracted beams	Plenary	contribution
FIPS2020 (virtual)	Tim Nelson	Search for LDM and vector mediators at accelerator-based experiments in US (HPS, BDX, Mini-Boone, LDMX,...)	Plenary	contribution
ICHEP 2020 (virtual)	Andrew Whitbeck	The Light Dark Matter Experiment	Plenary	contribution
APS April Meeting (2020-Virtual COVID-19)	Craig Group	The Light Dark Matter Experiment	Parallel	Slides: pdf
TeVPA 2019 in Sydney December 2-6 2019	Bertrand Echenard	The Light Dark Matter Experiment, LDMX	Parallel	Slides: pdf
Workshop at GGI, Next Frontiers in the Search for Dark Matter Sept, 2019	Ruth Pöttgen	Progress and Prospects of LDMX	Workshop	Slides: pdf
Swedish National Particle Physics Meeting Sept, 2019	Ruth Pöttgen	The Light Dark Matter eXperiment	Parallel	Slides: pdf
Lepton-Photon in Toronto August 5-10, 2019	Tim Nelson	Fixed-Target Dark Matter Searches	Plenary	Slides: pdf
DPF at Northeastern University 29 July - 2 August 2019	Jeremiah Mans	The Light Dark Matter eXperiment, LDMX	Parallel	Slides: pdf
EPS-HEP Conference 2019 Ghent, Belgium	Valentina Dutta	The Light Dark Matter eXperiment, LDMX	Parallel	Slides: (pdf)
Workshop on Fractional Charge Particles, Monopoles, and Dark Photon T.D. Lee Institute, Shanghai May 31-June 1, 2019	David Hitlin	Exploring Light Dark Matter with the LDMX Experiment	Invited	Slides: (pdf) Shanghai.pdf
European Particle Physics Strategy Update at the Open Symposium in Granada. May 14, 2019	Ruth Pöttgen	Lepton Beams: LDMX@eSPS (NA64++, AWAKE++)	Invited	Slides: (pdf)
Preparing for Dark Matter Particle Discovery <i>Chalmers University of Technology, Gothenburg, Sweden</i> June 11-15, 2018	Ruth Pöttgen	Light in the Dark - a Light Dark Matter experiment	Contributed	Slides: (pdf)
Advances in Dark Matter and Particle Physics 2016 <i>University of Messina, Messina, Italy</i> October 23-27, 2017	Jeremiah Mans	The LDMX Experiment	Contributed	Slides: (pdf , ppt)

Brookhaven Forum 2017: In Search of New Paradigms BNL, Uptown, NY, USA October 11-13, 2017			Contributed	
TeVPA 2017 The Ohio State University, Columbus, OH, USA August 7-11, 2017	Unknown User (jhiltbrand)		Contributed	Slides: (pdf)
DPF 2017 FNAL, Batavia, IL, USA July 31-August 4, 2017	Andrew J Whitbeck		Contributed	Slides: (pdf)
2017 Americas Workshop on Linear Colliders SLAC, Menlo Park, CA, USA June 26-30, 2017	Omar Moreno	Light Dark Matter eXperiment	Contributed	Abstract, Slides: (pdf , gdoc)
Light Dark Matter 2017 La Biodola, Isola d'Elba, Italy May 24-28, 2017	Tim Nelson		Invited	Slides: (pdf, keynote)
U.S. Cosmic Visions: New Ideas in Dark Matter University of Maryland, College Park, MD, USA March 23-25, 2017	Tim Nelson		Invited	Slides: (pdf, keynote, pptx), 1-page summary
2017 APS "April" Meeting Washington DC, USA January 28-31, 2017	Unknown User (ocolegro)	Light Dark Matter eXperiment Scientific Goals and status of Design Studies	Contributed	Abstract, Slides: (pdf, keynote)
Dark Sectors Workshop 2016 SLAC, Menlo Park, CA, USA April 28-30, 2016	Jeremiah Mans	LDMX - Light Dark Matter eXperiment	Invited	Slides: (pdf)

Other Talks: Seminars, Colloquia, Review Talks, etc.

Location and Date	Speaker	Title	Talk Type	Slides/recording
University of Virginia May 1, 2024	Jessica Pascadlo	Recent Progress Toward the Light Dark Matter eXperiment (LDMX)	Seminar	pdf
Chicago Sept 28, 2023	Theodor Christian Herwig	LDMX: The Light Dark Matter eXperiment	Seminar	pdf
MIT ???, 2023	Valentina Dutta		Seminar	pdf
P5 Town Hall @ BNL	Tim Nelson	Light Dark Matter eXperiment: A Discovery Experiment for sub-GeV Dark Matter	12' pitch	pdf
University of Wisconsin April 13, 2023	Matthew Solt	LDMX: The Light Dark Matter eXperiment	Seminar	Google Slides, pdf
New Mexico April 7, 2023	bertrand echenard	Light dark matter and the ldmx experiment	Colloquium	pdf
University of Oregon April 3, 2023	bertrand echenard	Light dark matter and the ldmx experiment	Seminar	pdf
University of Zurich April 3, 2023	Butti, Pierfrancesco	The Light Dark Matter Experiment	Seminar	Google Slides
UC Berkeley March 13, 2023	Tim Nelson	Illuminating Dark Matter with Accelerators	Colloquium	pdf, Keynote, video
DESY March 7, 2023	Butti, Pierfrancesco	The Light Dark Matter Experiment	Colloquium	Google Slides

UC Davis, Feb, 2023	Valentina Dutta		Seminar	pdf
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Older Colloquia, Review Talks, etc.

- [SLAC Accelerator Seminar](#) introducing DASEL and LDMX – T. Nelson, N. Toro, T. Raubenheimer, June 30, 2016
 - [SLAC Seminar on DASEL and LDMX](#) - T. Nelson, January 31, 2017
 - [LBL Seminar on LDMX](#) - B. Echenard, September 28, 2017
 - [Swedish National Particle Physics Meeting](#) - R. Poettgen, November 7, 2017
 - LAL séminaires généraux, "[Search for Light Dark Matter and a Primary Electron Beam Facility at CERN](#)" T. Akesson, July 8, 2018
 - Oscar Klein Centre colloquium - "[Search for Light Dark Matter with a Primary Electron Beam](#)", T. Akesson, Dec 17, 2019
 - Niels Bohr Institute, "[Search for Light Dark Matter using a Primary Electron Beam](#)", T. Akesson, Feb 20, 2020
 - Uppsala University, "[Search for Light Dark Matter with LDMX](#)", T. Akesson, Feb 27, 2020
 - University of Oxford, "[Search for Light Dark Matter with LDMX](#)", T. Akesson, Feb 16, 2021
 - DM2018, Santander Spain - [Review Talk on Dark Matter at Accelerators](#) - T. Nelson, July 28, 2018
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