

## Talks at national and international conferences

### Invited talks

- 01/2025**      **German strategy workshop in preparation of the ESPP update**, Bad Honnef, Germany  
*Early Career Researchers' Input and draft section for ESPP input document*
- 05/2024**      **Future Collider @ CERN - German Community Workshop**, Bonn, Germany  
*Input from the young High Energy Physicist association*
- 04/2024**      **Workshop on Realtime Machine Learning**, Giessen, Germany  
*GNN live tracking and triggering on the Versal platform for Dark Matter searches*
- 03/2023**      **DPG Spring Conference**, Dresden, Germany  
*Recent advancements in Micro-Pattern Gaseous Detectors: Exciting research ahead towards future experiments*
- 06/2022**      **Rencontre du DEDIP**, CEA Saclay, France  
*Triggerless readout for AMBER GEMs and novel neutron detectors*
- 02/2021**      **3rd MAGIX Collaboration Meeting**, Online  
*VMM noise measurements + a bit more*
- 02/2021**      **COMPASS DAQFEET 2021**, Online  
*VMM3a: Progress in the development*
- 05/2019**      **HISKP CBELSA/TAPS seminar**, Bonn, Germany  
*Instrumentation of next generation experiments:  
Can we develop and establish general readout electronics?*
- 02/2019**      **COMPASS DAQFEET 2019**, Munich, Germany  
*SRS VMM: A next generation generic readout system*
- 10/2018**      **GET workshop: General Electronics for Physics 2018**, Talence, France  
*The Scalable Readout System*
- 09/2018**      **PRISMA Detector Lab Technical Seminar**, Mainz, Germany  
*A next generation readout system and its application at the NMX instrument for ESS*
- 07/2018**      **ATLAS NSW Electronics Meeting**, CERN, Switzerland  
*Test results from a SRS hybrid with VMM3a in RD51*
- 07/2018**      **EIC Tracker Workshop**, University of Virginia, USA  
*The Scalable Readout System, held remotely*
- 07/2018**      **Oberseminar des II. Physikalischen Instituts**, Göttingen, Germany  
*A next generation readout system and its application at the NMX instrument for ESS*
- 04/2018**      **Seminar über Teilchenphysik des Physikalischen Instituts**, Bonn, Germany  
*A next generation readout system and its application at the NMX instrument for ESS*

### Talks at international conferences

- 02/2025**      **AMBER Technical Board**, Online/CERN, Switzerland  
*Status report for the GEM project including read-out*
- 06/2024**      **AMBER Collaboration Meeting 2024**, Online/CERN, Switzerland  
*GEM Developments: GT + VMM Plans and Status*
- 06/2024**      **DRD1 Topical Workshop on Electronics for Gaseous Detectors**, CERN, Switzerland  
*Close out*
- 06/2024**      **DRD1 Scientific Coordination Board**, Online/CERN, Switzerland  
*WG5 (Electronics) update*
- 01/2024**      **1st DRD1 Collaboration Meeting**, CERN, Switzerland  
*Working Group 5: Electronics for gaseous detectors - Introduction*

<b>01/2024</b>	<b>AMBER Technical Board</b> , Online/CERN, Switzerland <i>GEM plans for 2024</i>
<b>12/2023</b>	<b>RD51 Collaboration Meeting 2023</b> , Online/CERN, Switzerland <i>High-rate 3GEM detector with the SRS VMM for AMBER</i>
<b>11/2023</b>	<b>AMBER Technical Board</b> , Online/CERN, Switzerland <i>GEM VMM detector test</i>
<b>11/2023</b>	<b>AMBER Collaboration Meeting 2023</b> , Online/CERN, Switzerland <i>GEM developments and summary of PRM Pilot run tests</i>
<b>05/2022</b>	<b>15th Pisa Meeting on Advanced Detectors</b> , La Biodola, Isola d'Elba, Italy <i>Particle Physics Readout Electronics and Novel Detector Technologies for Neutron Science</i>
<b>11/2021</b>	<b>RD51 Collaboration Meeting 2021</b> , Online <i>SRS VMM-based streaming readout for future GEM detectors at AMBER and in neutron science</i>
<b>09/2021</b>	<b>Topical Workshop on Electronics for Particle Physics 2021</b> , Online <i>The Scalable Readout System as a common initiative - a personal review</i>
<b>02/2021</b>	<b>RD51 Miniweek 2021</b> , Online <i>GEM upgrade for COMPASS+/AMBER</i>
<b>10/2020</b>	<b>RD51 Collaboration Meeting 2020</b> , CERN, Switzerland <i>Assembly of a full SRS Eurocrate for 8 FECs and VMM readout</i>
<b>10/2019</b>	<b>RD51 Collaboration Meeting 2019</b> , CERN, Switzerland <i>VMM and the SRS - Update &amp; plans in Bonn</i>
<b>10/2019</b>	<b>6th International Conference on Micro-Pattern Gas Detectors</b> , La Rochelle, France <i>SRS VMM readout for Gadolinium GEM-based detector prototypes for the NMX instrument at ESS</i>
<b>10/2019</b>	<b>RD51 Miniweek 2019</b> , CERN, Switzerland <i>VMM and the SRS - Update</i>
<b>12/2018</b>	<b>RD51 Miniweek 2019</b> , CERN, Switzerland <i>512 channel Detector readout with VMM-SRS &amp; VMM and the SRS - Update</i>
<b>12/2018</b>	<b>ESS VMM workshop</b> , Lund, Sweden <i>VMM3a ASIC and SRS hybrid - features</i>
<b>09/2018</b>	<b>RD51 Collaboration Meeting 2018</b> , CERN, Switzerland <i>VMM and the SRS - Update</i>
<b>09/2018</b>	<b>Topical Workshop on Electronics for Particle Physics 2018</b> , Antwerp, Belgium <i>The VMM front-end integration in the Scalable Readout System: On the way to a next generation readout system for generic detector R&amp;D and experiment instrumentation</i>
<b>09/2018</b>	<b>15th In-Kind Contributions Meeting for Neutron Science at ESS (IKON15)</b> , Lund, Sweden <i>Electronics for the NMX instrument</i>
<b>06/2018</b>	<b>RD51 Collaboration Meeting 2018</b> , Munich, Germany <i>VMM and the SRS - Update</i> <i>Future of SRS system: Hardware and Firmware – my ideas</i>
<b>02/2018</b>	<b>RD51 Miniweek</b> , CERN, Switzerland <i>VMM and the SRS - Update</i>
<b>02/2018</b>	<b>CERN EP-DT Training Seminar</b> , CERN, Switzerland <i>Detectors and electronics for neutron detection at the NMX instrument of the European Spallation Source ERIC (ESS), with P. Thuiner</i>
<b>12/2017</b>	<b>RD51 Miniweek</b> , CERN, Switzerland <i>VMM and the SRS - Update</i>
<b>12/2017</b>	<b>CERN EP-DT-DD Seminar</b> , CERN, Switzerland <i>Detectors and electronics for neutron detection in the NMX instrument of European Spallation Source</i>
<b>10/2017</b>	<b>RD51 Collaboration Meeting 2017</b> , CERN, Switzerland

*VMM and the SRS - Update*

- 09/2017**     **13th In-Kind Contributions Meeting for Neutron Science at ESS (IKON15)**, Lund, Sweden  
*Gd-GEM detector development for the NMX instrument*, with P. Thuiner
- 10/2017**     **5th International Conference on Micro-Pattern Gas Detectors**, Philadelphia, USA  
*Implementation of the VMM in the Scalable Readout System*
- 12/2016**     **RD51 Miniweek**, CERN, Switzerland  
*VMM and the SRS - Update*
- 09/2016**     **RD51 Collaboration Meeting 2016**, Aveiro, Portugal  
*VMM and the SRS*
- 11/2015**     **IEEE Nuclear Science Symposium & Medical Imaging Conference 2015**, San Diego, USA  
*The Pixel-TPC: A feasibility study*
- 09/2015**     **Topical Workshop on Electronics for Particle Physics 2015**, Lisbon, Portugal  
*Implementation of the Timepix chip in the Scalable Readout System*
- 06/2015**     **LCTPC Collaboration meeting during the Asian Linear Collider Workshop 2015** KEK, Japan  
*Report from the pixel-TPC test beam in March/April*, held remotely
- 12/2014**     **RD51 Miniweek** CERN, Switzerland  
*SRS + Timepix readout*
- 10/2014**     **AIDA Final Meeting** CERN, Switzerland  
*Timepix readout*
- 06/2014**     **LCTPC Collaboration Meeting 2014** DESY, Hamburg  
*A Pixel-TPC for the Linear Collider: Towards a demonstrator module*
- 06/2014**     **RD51 Miniweek** CERN, Switzerland  
*Status of (SRS) + Timepix readout*
- 06/2014**     **Technology and Instrumentation in Particle Physics 2014** Amsterdam, Netherlands  
*InGrid: Pixelated Micromegas detectors for a pixel TPC*
- 04/2014**     **Linear Collider Forum** Bonn, Germany  
*The Pixel-TPC*
- 02/2014**     **RD51 Collaboration Meeting** CERN, Switzerland  
*Status of SRS + Timepix*
- 02/2014**     **RD51 Electronics School** CERN, Switzerland  
*Timepix array readout system*
- 07/2013**     **3<sup>rd</sup> Conference on Micro-Pattern Gaseous Detectors 2013** Zaragoza, Spain  
*The Pixel-TPC: first results from an 8-InGrid module*
- 04/2013**     **RD51 Miniweek** CERN, Switzerland  
*SRS+ Timepix*
- 10/2012**     **GridPix** Bonn, Germany  
*Status of SRS + Timepix*
- 03/2012**     **AIDA Annual Meeting** DESY, Germany  
*Timepix1 readout*
- 11/2011**     **RD51 Miniweek** CERN, Switzerland  
*Timepix adapter for SRS*
- 04/2011**     **RD51 Collaboration Meeting** CERN, Switzerland  
*Timepix readout*
- 02/2011**     **AIDA Kickoff Meeting** CERN, Switzerland  
*Ethernet-driven readout system for gaseous detectors*
- 05/2010**     **RD51 Collaboration Meeting** Freiburg, Germany  
*Study of gain fluctuations with InGrid and Timepix*

## Poster presentations

- 12/2022**      **7th International Conference on Micro-Pattern Gaseous Detectors**,  
Weizmann Institute of Science, Rehovot, Israel  
*Detectors and electronics for high precision measurements of thermal neutrons*
- 05/2022**      **15th Pisa Meeting on Advanced Detectors**, La Biodola, Isola d'Elba, Italy  
*TPC Development by the LCTPC Collaboration for the ILD Detector at ILC*
- 05/2021**      **Technology and Instrumentation in Particle Physics 2021**, Online  
*Application and further improvement of the RD51 general  
Scalable Readout System with the VMM chip*
- 06/2019**      **European Conference on Neutron Scattering 2019**, St. Petersburg, Russia  
*The Scalable Readout System: A generic readout system for  
next generation detectors*

## Talks at national conferences

- 03/2023**      **Spring conference of the German Physics Society 2023** Dresden, Germany  
*Data analysis of a GEM detector with VMM3a readout at the AMBER pilot run*
- 03/2023**      **Spring conference of the German Physics Society 2023** Dresden, Germany  
*Investigations on the Signal-to-Noise Ratio of the VMM Readout Chip with a GEM Detector*
- 03/2022**      **Spring conference of the German Physics Society 2022** Mainz/online, Germany  
*Streaming readout for the AMBER GEM detectors*
- 03/2019**      **Spring conference of the German Physics Society 2019** Aachen, Germany  
*A next generation readout system for generic detector R&D and experiment instrumentation:  
The VMM front-end integration in the Scalable Readout System*
- 03/2015**      **Spring conference of the German Physics Society 2015** Wuppertal, Germany  
*A Pixel-TPC for the Linear Collider: A test beam with the demonstrator module*
- 09/2014**      **46<sup>th</sup> School for high energy physics** Maria Laach, Germany  
*Machbarkeitsstudie einer Pixel-TPC*
- 03/2014**      **Spring conference of the German Physics Society 2014** Mainz, Germany  
*A Pixel-TPC for the Linear Collider: Towards a demonstrator module*
- 03/2013**      **Spring conference of the German Physics Society 2013** Dresden, Germany  
*A readout system for pixelated micro-pattern gaseous detectors*
- 02/2012**      **Spring conference of the German Physics Society 2012** Göttingen, Germany  
*Entwicklung eines Auslesesystems für mikrostrukturierte gasgefüllte Detektoren*
- 03/2011**      **Spring conference of the German Physics Society 2011** Karlsruhe, Germany  
*Lawinenstatistik und Einzelelektronenzählung mit einem Timepix-InGrid Detektor*
- 11/2009**      **Seminaire oriente vers une contribution au lineaire a electrons 2009**, CEA Saclay, France  
*Timepix (in French)*

## Lectures

- 12/2024**      Electronic Readout, **DRD1 Gaseous Detector School** CERN, Switzerland
- 03/2024**      Introduction to particle physics detectors, **DPG Spring Conference**, Karlsruhe, Germany
- 11/2023**      Electronics Readout Techniques, **RD51 MPGD School** CERN, Switzerland
- 2023**      Experimental Physics II for Natural Scientists, **co-lecturer**
- 2022/23**      Physics of Particle Detectors, **co-lecturer**
- 2021/22**      Hands-on Seminar: Detector Construction, **lecturer**
- 2021**      Advanced gaseous detectors, **lecturer**, cancelled due to lack of students  
Pentecost break lecture on Special Relativity, Physics II, **lecturer**

<b>2020/21</b>	Physics I for natural scientists, <b>head tutor</b>
<b>2020</b>	Seminar presentation techniques, <b>co-organiser and tutor</b>
<b>10/2019</b>	Particle Astrophysics, <b>head tutor, one reading as replacement for primary lecturer</b>
<b>02/2014</b>	Introduction to VHDL, <b>RD51 Collaboration Electronics School</b> CERN, Switzerland