

Talks at national and international conferences

Invited talks

- 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

- 12/2023** **RD51 Collaboration Meeting 2023**, CERN, Switzerland
High-rate 3GEM detector with the SRS VMM for AMBER
- 11/2023** **AMBER Collaboration Meeting 2023**, Online/CERN, Switzerland
GEM developments and summary of PRM Pilot run tests
- 05/2022** **15th Pisa Meeting on Advanced Detectors**, La Biodola, Isola d'Elba, Italy
Particle Physics Readout Electronics and Novel Detector Technologies for Neutron Science
- 11/2021** **RD51 Collaboration Meeting 2021**, Online
SRS VMM-based streaming readout for future GEM detectors at AMBER and in neutron science
- 09/2021** **Topical Workshop on Electronics for Particle Physics 2021**, Online
The Scalable Readout System as a common initiative - a personal review
- 02/2021** **RD51 Miniweek 2021**, Online
GEM upgrade for COMPASS++/AMBER
- 10/2020** **RD51 Collaboration Meeting 2020**, CERN, Switzerland
Assembly of a full SRS Eurocrate for 8 FECs and VMM readout
- 10/2019** **RD51 Collaboration Meeting 2019**, CERN, Switzerland
VMM and the SRS - Update & plans in Bonn

- 10/2019** **6th International Conference on Micro-Pattern Gas Detectors**, La Rochelle, France
SRS VMM readout for Gadolinium GEM-based detector prototypes for the NMX instrument at ESS
- 10/2019** **RD51 Miniweek 2019**, CERN, Switzerland
VMM and the SRS - Update
- 12/2018** **RD51 Miniweek 2019**, CERN, Switzerland
512 channel Detector readout with VMM-SRS & VMM and the SRS - Update
- 12/2018** **ESS VMM workshop**, Lund, Sweden
VMM3a ASIC and SRS hybrid - features
- 09/2018** **RD51 Collaboration Meeting 2018**, CERN, Switzerland
VMM and the SRS - Update
- 09/2018** **Topical Workshop on Electronics for Particle Physics 2018**, Antwerp, Belgium
The VMM front-end integration in the Scalable Readout System: On the way to a next generation readout system for generic detector R&D and experiment instrumentation
- 09/2018** **15th In-Kind Contributions Meeting for Neutron Science at ESS (IKON15)**, Lund, Sweden
Electronics for the NMX instrument
- 06/2018** **RD51 Collaboration Meeting 2018**, Munich, Germany
VMM and the SRS - Update
Future of SRS system: Hardware and Firmware – my ideas
- 02/2018** **RD51 Miniweek**, CERN, Switzerland
VMM and the SRS - Update
- 02/2018** **CERN EP-DT Training Seminar**, CERN, Switzerland
Detectors and electronics for neutron detection at the NMX instrument of the European Spallation Source ERIC (ESS), with P. Thuiner
- 12/2017** **RD51 Miniweek**, CERN, Switzerland
VMM and the SRS - Update
- 12/2017** **CERN EP-DT-DD Seminar**, CERN, Switzerland
Detectors and electronics for neutron detection in the NMX instrument of European Spallation Source
- 10/2017** **RD51 Collaboration Meeting 2017**, 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** **3rd 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** **46th 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

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