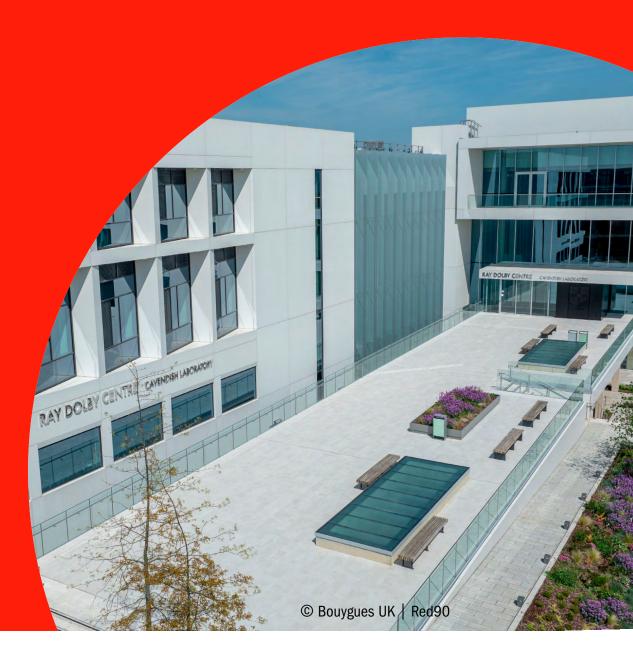
7–9 April 2025

Cavendish Laboratory, Cambridge, UK



IOP Institute of Physics

CAEN **n** Electronic Instrumentation

FERS 5200 FAMILY

A5204/DT5204* 64 Ch

Radioroc and CERN picoTDC unit for SIPM

A5203/DT5203 64/128 Ch

A5202/DT5202 64 Ch

picoTDC unit



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*Coming Soon

- High energy resolution and excellent ToA/ToT performances
- Better than 55 ps FWHM on single photo-electron
- Embedded bias generator
- Spectroscopy Mode (PHA)
- Photon Counting Mode

Common Features



Janus open source software for board configuration and **DAQ** control

- Wide range of input adapters and cables
- Scalable, easy-synch: manage/synchronize up to 128 cards (8192/16384 channels) with one DT5215 Concentrator **Board** using optical TDlink

- 3.125 ps LSB, 52 µs / 210 µs dynamic range
 - ΔT~ 7 ps RMS typ. with constant input pulse
 - ΔT~ 20 ps RMS typ. with variable amplitude input pulses and walk correction
- Time of Arrival (leading/ trailing edge) and Time over Threshold measurements



- Spectroscopy Mode (PHA) up to 100 Kcps
- Photon Counting Mode up to 20 Mcps per channel
- Timing Mode with 500 ps LSB timestamping





Easy-scalable system

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Monday 7 April 2025

10:30 - 11:00	Registration and Refreshments					
11:00 - 11:30	Welcome Address (Room: Ray Dolby Auditorium)					
11:30 - 12:30	Plenary Talk Mark Thomson: Particle physics today and tomorrow (Room: Ray Dolby Auditorium)					
12:30 - 12:35	Sponsor Talk by Hamamatsu (Room: Ray Dolby Auditorium)					
12:35 - 13:30	Lunch					
13:30 - 15:00	Plenary Talks Chris Pollard: Electroweak-scale physics at the LHC and beyond (13:00 – 14:00) Tevong You: Collider phenomenology, EFTs and future prospects (14:00 - 14:30) Patricia Schmidt: Gravitational waves updates (14:30 - 15:00) (Room: Ray Dolby Auditorium)					
15:00 - 15:30	AGM (Room: Ray Dolby Auditorium)					
15:30 - 16:00	Afternoon Break					
16:00 - 18:00	Collider Physics – QCD 2 (Lecture Theatre) (16:00–17:00) Cosmic Messengers (Lecture Theatre) (17:00–18:00)	Beyond the Standard Model 2 (Seminar West)	Detectors and Instrumentation 1 (Seminar East)	Collider Physics – Flavour 1 (Cluster Room)	Collider Physics - Electroweak (EW) and Higgs 1 (Ray Dolby Auditorium)	
18:00 - 20:00	Poster Session, Drinks Reception and Exhibition					



Tuesday 8 April 2025

09:00 - 10:30	Plenary Talks Mariana Carrillo Gonzalez: Formal theory developments (09:00 – 09:30) Ashlea Amanda Kemp: QTFP physics impact (09:30 - 10:00) David Marsh: Axion experiment and theory (10:00 - 10:30) (Room: Ray Dolby Auditorium)						
10:30 - 11:00	Morning Break						
11:00 - 12:00	Plenary Talks Sally Shaw: WIMPs and wellbeing: setting limits without exceeding your own (11:00 - 11:30) Sheila Kanani: EDIA plenary (11:30 - 12:00) (Room: Ray Dolby Auditorium)						
12:00 - 12:05	Sponsor Talk by CAEN S.p.A. (Room: Ray Dolby Auditorium)						
12:05 - 12:35	AGM						
12:35 - 13:30	Lunch						
13:30 - 15:00	Analysis and Reconstruction Methods: 1 (Cluster Room) (13:30 – 14:30) Accelerator Innovations (Cluster Room) (14:30 – 15:00)	Terrestrial Dark Matter Searches: 1 (Ray Dolby Auditorium)	Detectors and Instrumentation 2 (Seminar East)	Neutrino Physics: 1 (Lecture Theatre)	Beyond the Standard Model: 2 (Seminar West)		
15:00 - 15:30	Afternoon Break						
15:30 - 16:00	Plenary Talk EPPSU ECR Session (Room: Ray Dolby Auditorium)						
16:00 - 18:00	STFC Town Hall Meeting (Room: Ray Dolby Auditorium)						
19:00 - 22:00	Conference Dinner (Churchill College Dining Hall)						



Wednesday 9 April 2025

09:00 - 10:30	Plenary Talks Sean Paling: Latest news from Boulby (09:00 – 09:30) Davide Vadacchino: Lattice QCD and BSM update (09:30 - 10:00) Anne-Marie Magnan: Long-lived particles at accelerators (10:00 - 10:30) (Room: Ray Dolby Auditorium)					
10:30 - 11:00	Morning Break					
11:00 - 12:30	Analysis and Reconstruction Methods: 2 (Cluster Room)	Terrestrial Dark Matter Searches: 2 (Ray Dolby Auditorium)	Detectors and Instrumentation : 3 (Seminar East)	Neutrino Physics: 2 (Lecture Theatre)	Collider Physics - Flavour: 2 (Seminar West)	
12:30 - 13:30	Lunch					
13:30 - 15:00	Plenary Talks Andreas Korn: LHC upgrades: machine, detectors, and sustainability (13:30 - 14:00) Patrick James Dunne: Neutrino experimental updates (14:00 - 14:30) William Barter: Quark and lepton flavour physics (14:30 - 15:00) (Room: Ray Dolby Auditorium)					
15:00 - 15:30	Afternoon Break					
15:30 - 16:30	Plenary Talks Ellis Owen: Multimessenger Update (15:30 - 16:00) Adam Brown: Dark matter direct searches (16:00 - 16:30) (Room: Ray Dolby Auditorium)					
16:30 - 17:00	Closing Address (Room: Ray Dolby Auditorium)					