

SPECIAL AD SEMINAR

# White Rabbit introduction and selected applications

Friday Oct 11, 11 am, CURIA II

**Speaker: Tomasz Wlostowski (CERN)**

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<https://white-rabbit.web.cern.ch/>



White Rabbit is an extension of Ethernet which provides sub-nanosecond accuracy and picoseconds precision of synchronization for large distributed systems. It also allows for deterministic and reliable data delivery. The talk will provide introduction to the WR's principles of operation, hardware/software implementation and typical applications, with particular focus on the WR Trigger Distribution system (WRTD). The WRTD uses a WR network to connect Time-to-Digital Converters (TDCs) and digital Pulse Generators, distributing trigger pulses with low and fixed latency. This allows for synchronization of signal acquisition in large-scale DAQ systems.

A live demo of WRTD may follow (time constraints and hardware availability permitting).