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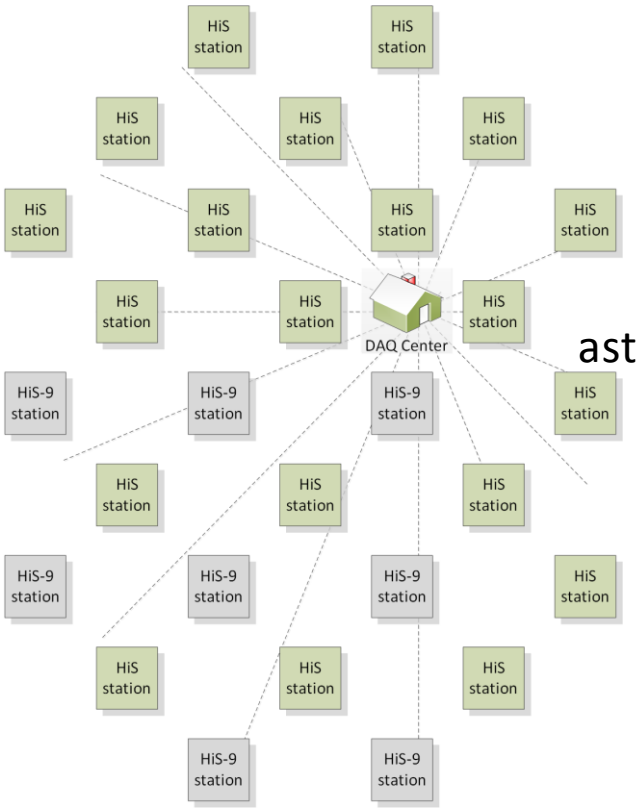
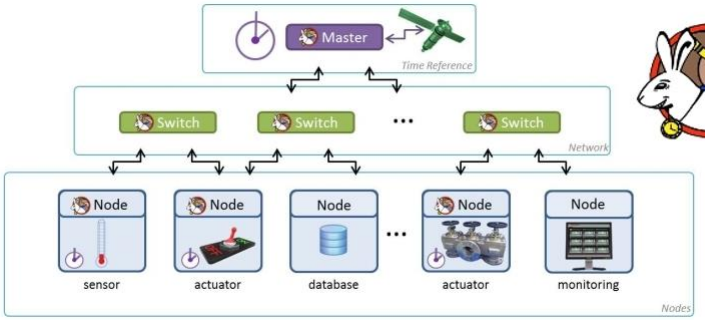
White Rabbit based sub-nsec time synchronization, time stamping and triggering in distributed large scale astroparticle physics experiments



HiSCORE experiment in Siberia

- Distributed over several km²
- Needs 1ns time stamps

Integrating WR into astroparticle experiments like HiSCORE with time stamping



White Rabbit
Time Synchronisation System
Developed at CERN

Sub-nsec precision
Ethernet fiber based

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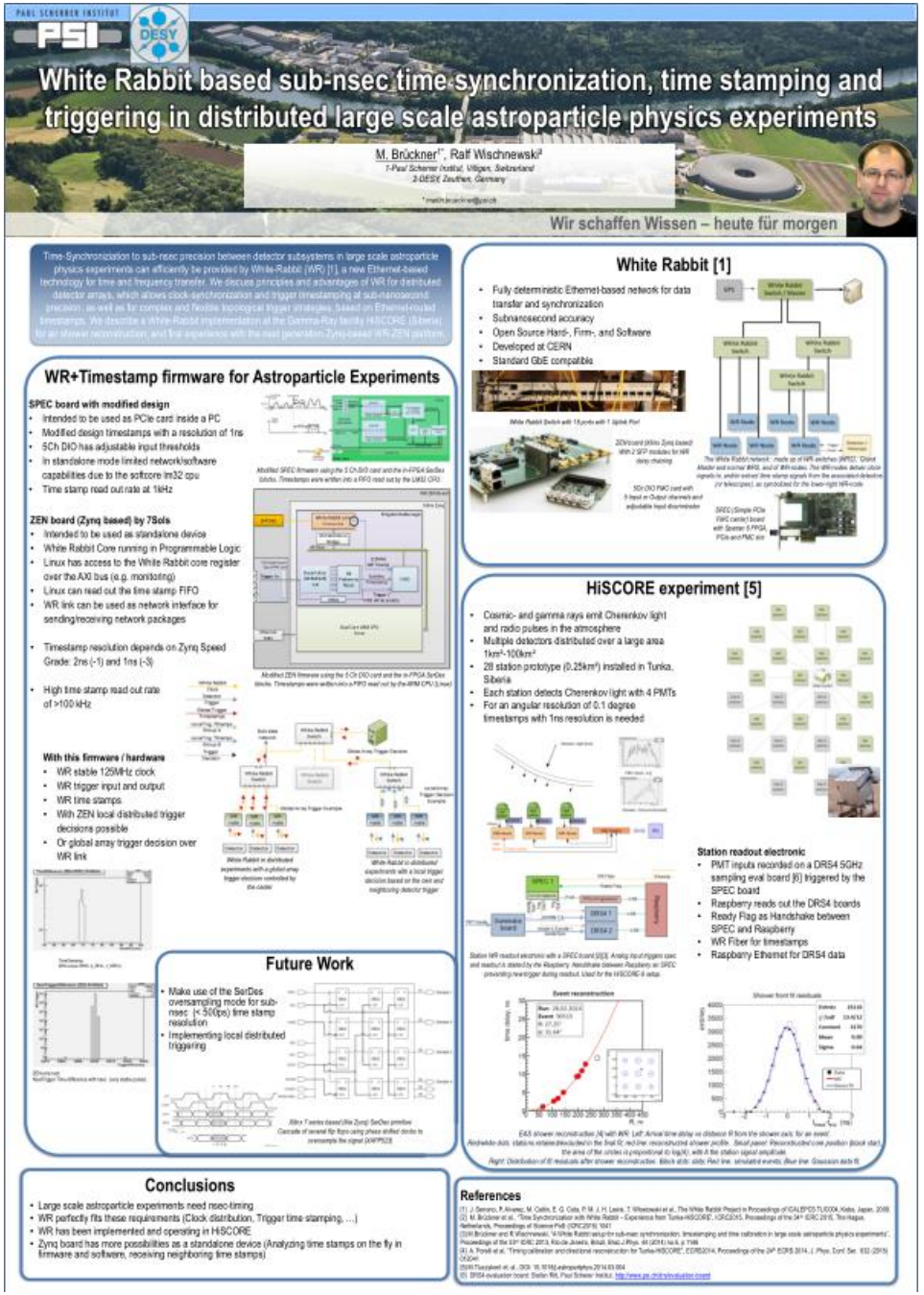
PSI

DESY

Integrating WR into HiSCORE



WR itself

HiSCORE experiment in Siberia with modified WR firmware