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## **PO38 - Measurement of temperature and humidity in accelerator tunnel by Raspberry Pi**

*Tuesday, 12 September 2023 15:10 (20 minutes)*

“It is important to measure and control the temperature and humidity in the accelerator tunnel to keep this accelerator component healthy.

We have developed the inexpensive measurement system in the tunnel consisting of a Raspberry Pi and an I2C sensor with temperature and humidity.

This compact system can measure humidity as well as temperature in real time based on EPICS system and is easy to install.

The results of hanging up of the systems due to the radiation during the beam operation and the counter measure to protect the system is reported.

Also the stability during the long shut down time where the air conditioning system in the tunnel been turned off is discussed.”

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**Session Classification:** Poster / Demo Sessions