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The Embedded Local Monitor Board 2 project status

Thursday, 28 May 2020 10:00 (30 minutes)

The Embedded Local Monitor Board version 2 (ELMB2) is a fully backward compatible upgraded version of the ELMB, widely used in LHC systems and experiments for slow-control and monitoring purposes. The substitution of the most vulnerable components led to an improved performance and a higher radiation tolerance compared to its predecessor. The SEE rates, TID and NIEL effects were evaluated at 3 different irradiation facilities. The ELMB2 system description and the obtained test results are presented.

In addition, a novel DCS front-end proposal based on radiation hard components developed at CERN, the Embedded Monitoring and Control Interface (EMCI), is presented.

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