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Beam Instrumentation challenges

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Beam instrumentation encompasses all instruments that observe beam behaviour, providing “eyes” for machine operators. Good beam instrumentation is a must for safe and efficient accelerator optimisation. Today’s main challenges lie in the request for unprecedented precision with positioning down to well below the micron level; dealing with high beam powers requiring non-invasive measurement techniques; and dealing with the ultra-fast implying measurements on femto-second timescales. All of this typically on a bunch by bunch basis requiring the efficient treatment of increasingly more data. This presentation will give an overview of these challenges and how they are currently being addressed.

Presenter: Dr JONES, Rhodri (CERN)