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Past and future microelectronics in HEP

Tuesday, 29 September 2015 14:00 (45 minutes)

Moore's law celebrates this year its 50th anniversary. The technologies developed following its paradigm have brought profound changes in the way we work and communicate in our everyday life. The massive introduction of microelectronics in the design of experiments and detectors for High Energy Physics at LHC has also changed the way we conceive, design and operate experiments. Despite the innumerable threats of imminent saturation of its capabilities, microelectronics has continued to allow higher levels of integration at a lower cost per transistor, following the original Moore's curve. New HEP experiments and upgrades for the 2020's can now be planned with much more ambitious plans where perhaps the only limits will derive from our imagination and from our ability in managing complex projects and their risks, rather than from any intrinsic technological limitation.

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