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## **Activation Studies at a Medical Cyclotron using ActiWiz and RAW**

*Monday, 23 September 2019 10:30 (30 minutes)*

The European Organization for Nuclear Research CERN in Geneva and the Institute of Radiation Physics IRA in Lausanne develop in collaboration new tools and methods for the characterization of activated materials at accelerators. These materials can be the components of the accelerators, auxiliary devices, architectural infrastructure and/or any object exposed to primary and secondary radiation fields. In this context, new tools (ActiWiz and RAW) were developed which allow for a very time and cost efficient characterization. The latter becomes necessary because of the enormous quantities of materials being concerned. They have to cover activation processes in a wide range from sub electron volt (thermal neutrons) to TeV. These tools together with FLUKA have been applied to materials from a medical cyclotron at the University Hospital HUG in Geneva. In this presentation, a short description of these tools will be given followed by a discussion of the first results.

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**Session Classification:** Session 1