UNIVERSITÀ DEGLI STUDI DELL'AQUILA

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Contribution ID: **4**   Type: **not specified**

Data lifecycle for particle experiments

Thursday, 30 November 2023 12:40 (50 minutes)

The life-cycle of data for experiment in particle physics follows a complicated path that starts from the design of the detector, continues with the signal acquisition and finishes in the analysis. Each step involves significant elaboration with techniques that span from digital signal processing to statistical modelling of the processes at play in order to extract the quantities of interest for the measurement. This keynote will introduce such processes and than will focus on the typical inference techniques used by physicists to obtain their results.

45 min plus 5 min discussion

Presenter: RAZETO, Alessandro (INFN - LNGS)