



Contribution ID: 10

Type: **not specified**

Low-latency computing for Gravitational-Wave science

One of the peculiarities of Gravitational-Wave computing, at least with respect to HEP, is the need to quickly generate alerts for transient event candidates and to distribute them to observatories worldwide for multi-messenger followup. Data need to be exchanged between collaborators (Virgo, LIGO and now also KAGRA) to allow for sky localisation. Currently data transfers, low-latency analyses, event candidates and alerts are managed by a set of interacting services and tools that are evolving both in functionality and deployment model in preparation for the upcoming fourth observation period. The growing rate in detected signals, with the ongoing upgrades of existing interferometers and the third-generation facilities being proposed, will pose challenges for the future.

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Session Classification: Esperimenti

Track Classification: Esperimenti