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Latency and accuracy of the reconstruction of the gravitational wave signal in Virgo

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Since Virgo joined the O4 run in April 2024, the $h(t)$ strain signal that may contain any gravitational wave signal has been reconstructed with a 2% accuracy in the 20-2000 Hz frequency band thanks to a good estimation of the interferometer optical response and the construction of accurate models of the mirrors actuators. I will present this $h(t)$ reconstruction and how its current improvements, especially the reduction of its latency down below 2 seconds, may impact the transient detections in the futur O5 run.

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Classification de Session: Contributed talks