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The multi-messenger astronomy era : status and potential

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Despite much effort in the past, only very recently the first true multi-messenger measurements have been made. Gamma ray emission has been seen from a gravitational wave merger event and a gamma transient has been seen in coincidence with a high-energy neutrino event. Thus, the excitement and expectations are high, even though the journal papers are just written. Both events are transients of rather short duration, and only one event has been observed so far in each category. Theorists already use the events to constrain emission models. In this presentation, the current situation and the potential for future developments is assessed.

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