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Type: **Invited talk**

Calibration, Data Quality and Vetos: now and the upcoming challenges

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The quantity and quality of observations that we can make with ground-based gravitational-wave detectors depends on three critical tasks: (i) accurately calibrating the detectors; (ii) characterizing the performance of the detectors so that we can improve their astrophysical reach; and (iii) using calibration and data-quality information in both searches and parameter measurement. The evolution of detector sensitivity, the challenges posed by low-latency searches and sky localization for electromagnetic follow-up, and the evolution of analysis techniques used by the astrophysical analyses all present different challenges for calibration, data quality and vetoes. I will review the current techniques used and discuss the challenges for the future.

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Classification de Session: New Data Analysis Methods