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Searching for Binary black holes in LVK data - state of the art and the way forward

In this talk, I will review the high-latency search efforts for compact binary coalescence in gravitational wave data.

I will review the current pipelines, their progress in the last couple of years, and the efforts to improve them. I will emphasize the current gaps in our searches, emphasizing the open algorithmic questions that must be solved to answer the pressing physical questions.

I will then outline how we plan to address these questions in the near future and show results from a novel search we have recently finalized.

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