

# Sideband review summary

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# Synopsis

This paper produces a significant new result for the LSC and Virgo, carrying out the most sensitive search to date for gravitational waves from Scorpius X-1 in the 50-550 Hz band. In doing so, the paper establishes an important tool for the advanced detector era. The search and the accompanying paper were extensively reviewed. An initial code review was followed by a battery of sanity checks and validation procedures, which strengthened our confidence in the statistical interpretation of the results. Special attention was paid to understand candidate event follow-up and veto procedures in particular. Having completed the review, we give our full endorsement. The paper is astrophysically interesting and the procedure has been validated.

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\* Teviet Creighton also participated in an earlier stage of the review.

# Review highlights

- Thorough code review with Teviet
- Recovered vs. injected study
- FAP vs. C-stat
- Follow up of low-FAP candidates
- Eye-scanning vetos / manual follow-up