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Low-Frequency Noise in ET, How can we improve by a factor of a million at 3 Hz?

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The science goals of ET rely on achieving astrophysically interesting sensitivity below 5Hz. This presents an enormous technical challenge, and it was a major focus of the recent ET Instrument Science Board workshop. The question is broken down into several parts: we looked at the key noise-drivers in current detectors and attempt to identify strategies to mitigate them by design in ET. This summary of the workshop will identify some interesting points and unanswered questions.

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