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Closing a loop between ISC and SEI

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This talk is to explore the complex link relating low frequency seismic performance and control noise contamination of the primary interferometer signals. Past requirements relating these systems were done using bespoke interferometer and controls models, which have not necessarily translated to the implementations actually used and have certainly not translated into auxiliary controls noises that are subdominant to the fundamental noises. What are the ideas, models, and tools needed to better relate the targets of the seismic system and auxiliary controls systems to best describe when these complex noises will become fundamental noises, ultimately to drive subsystem design for the full system.

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