

Abstract Submitted  
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**Catching massive black hole binaries with LISA**<sup>1</sup> KEVIN SHUMAN,  
NEIL CORNISH, Montana State University, Bozeman — The Laser Interferometer  
Space Antenna (LISA) will detect thousands of overlapping signals that are present  
in the data for months or years. We are developing a time-evolving global analysis of  
the LISA data, which will simultaneously detect and characterize all galactic bina-  
ries, back holes binaries, extreme mass ratio inspirals, and un-modeled sources while  
also modeling the detector noise. Here we discuss the techniques we are working  
on to tackle the specific challenges relating to the detection and characterization of  
multiple massive binary black holes.

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