

Introduction

Effects of Global Electromagnetic Field for LIGO-Virgo-KAGRA

February 19, 2016

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We have already seen how correlated magnetic fields can possibly affect the stochastic GW background search.

Recent coherence measurements with low noise magnetometers: Is Weiner filtering going to be effective? What will be the effect of low noise magnetometers at the sites?

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We now see evidence for magnetic “bursts” in coincidence between the LIGO-Virgo sites.

Will this affect the transient gravitational wave searches?

What det char flags can we / should we develop?

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We are looking for the input from the experts on understanding the global electromagnetic field, and how best to monitor them.
