



New noise reduction method for Ringdown signal search in TAMA300

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Abstract:

We are searching for GW ringdown signals from BH formation by using TAMA300 data.

Because ringdown signals are similar to short burst signals, large amount of fake events are triggered by matched filtering. So we study on new method to reduce such fake events. In conventional method, only the best matched template is focused on. Our method use additional information from other templates. We focus on area size of 70% contour around the best matched one in template phase space. More details are presented by our poster.

In conventional analysis,
We use only information of the best template.

