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Effective banks of templates in detection of almost monochromatic gravitational waves

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Problem of finding effective banks of templates is very important in match filtering method used in detection of almost monochromatic gravitational waves coming from single rotating neutron stars located in our Galaxy. Construction of effective banks of templates requires finding optimal grid coverings in the space spanned by unknown parameters of the gravitational-wave signal we are looking for. Such coverings can be generated by the software ''Grids Generator" devised by me. In my talk, I will show some results produced by this software and explain in more detail one of the algorithms used to generate effective grid coverings.

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