

Improving Sensitivity to Neutron Star Gravitational Wave Events using the Qp Transform

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Aframe is a gravitational wave search pipeline being constructed at the University of Minnesota Twin Cities. It is a machine learning pipeline designed to look for gravitational wave signals. It performs well for events with a high chirp mass, but could be better for ones with a lower chirp mass. My work is on improving Aframe's performance for these lower mass events using a new type of Q transform, the Qp transform.

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