



Contribution ID: 6

Type: **Gong show talk (5 mins)**

## Spectral Reconstruction in NRQCD using the Backus-Gilbert Method

*Thursday, 15 December 2022 14:30 (10 minutes)*

Reconstructing the spectrum of QCD in the non-relativistic regime involves the inversion of a Laplace transform. For noisy lattice data, this process is numerically unstable and requires treatment to avoid the emergence of infinitely many spectra. One such treatment is the Backus-Gilbert method, originally applied to seismic wave data, now deployed in the reconstruction of heavy bottomonium meson spectra. We then conclude with a discussion of properties of the Laplace transform and how they may be manipulated to improve the resolution of the reconstruction.

### Type of presentation

5 minute talk

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Lattice QCD

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