

# Notes on Matrix-Valued Spectral Function Reconstructions

Patrick Oare

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## Abstract

Notes on solving the spectral function inversion problem in lattice QCD for matrix-valued correlators.

## 1 Introduction

TODO  
abc

## 2 The GEVP

## 3 Formalism

The beauty of the matrix-valued reconstruction problem is that the interpolation problem maps onto another well-studied function class. For the matrix-valued case, instead of Schur functions, we'll be studying **Carathéodory functions**.

# Appendices

## A Blaschke Products

TODO