

# Nagy's perturbation of a non-selfadjoint operator and application to a Gribov operator in Bargmann space

Ines Feki<sup>1</sup>, Aref JERIBI<sup>2</sup>, and Ridha Sfaxi<sup>3</sup>

<sup>1</sup>University of Sfax

<sup>2</sup>Universite de Sfax

<sup>3</sup>University of Hafr-Al-Batin

May 5, 2020

## Abstract

The purpose of the present paper is to formulate some new supplements to perturbation theory of linear operators [15] by considering a non-analytic perturbation involving more than one perturbation parameter. An application to a Gribov operator in Bargmann space illustrates the mathematical problem involved in this paper.

## Hosted file

MMAS.pdf available at <https://authorea.com/users/302405/articles/432467-nagy-s-perturbation-of-a-non-selfadjoint-operator-and-application-to-a-gribov-operator-in-bargmann-space>