

1138-47-301

Artem V. Hulko* (ahulko@uncc.edu). *On the Number of Eigenvalues of the Biharmonic Operator on \mathbb{R}^3 .*

In this talk I would like to look at the biharmonic operator on \mathbb{R}^3 perturbed by a complex potential, which decays exponentially at infinity. In this talk I will present the bounds I obtained for the total number of eigenvalues of the aforementioned operator, located outside of the essential spectrum. These kind of estimates exist for the self-adjoint case, that is when the potential is real-valued. However, in the non-self-adjoint case such results have not yet been achieved. (Received February 12, 2018)