

## ON THE NUMBER OF NEGATIVE EIGENVALUES OF A PARTIAL INTEGRAL OPERATOR

*R. R. Kucharov and Yu. Kh. Eshkabilov*

We find the lower boundary for the essential spectrum of a Fredholm type partial integral operator  $H$ . We also obtain an estimate for the number of eigenvalues below this boundary.

*Key words and phrases:* essential spectrum, discrete spectrum, the lower boundary of the essential spectrum, Fredholm type partial integral operator.

*Kucharov Ramziddin Ruzimuradovich*  
*Eshkabilov Yusup Khalbaevich*

National University of Uzbekistan,  
Tashkent, 100174 Uzbekistan.

E-mail: ramz3364647@yahoo.com

E-mail: yusup62@mail.ru

Received  
May 14, 2013

Translated into English:

*Siberian Advances in Mathematics*, V. 25, N 3, 179–190 (2015).

DOI: 10.3103/S1055134415030037