

Aydin Sh. SHUKUROV

INVERSE EIGENVALUE PROBLEM FOR  
DIFFUSION EQUATION WITH NONSEPARATED  
BOUNDARY CONDITIONS

**Abstract**

*The inverse problem of spectral analysis for a quadratic pencil of Sturm-Liouville operators on a finite segment is considered; sufficient condition for the solvability of this inverse problem is obtained. Under some additional condition on one of the coefficient functions these are also necessary conditions.*