

**ABOUT DIFFERENTIAL OPERATOR,  
GENERATED CAUCHY PROBLEM IN  
WEIGHT FUNCTIONAL SPACE WITH INITIAL  
CONDITION FROM SUBSPACES**

*Zagorskii A. S.*

In given article spectral properties of differential operator, generated Cauchy problem in weight functional space  $L_p^w(\mathbb{R}_+, X)$  with initial condition from subspaces  $E$  of Banach spaces  $X$  are considered.