

## DETERMINATION OF FISSION FRAGMENT YIELDS USING THE SORPTION PROCESS

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The separation of iodine isotopes from the sum of  $^{235}\text{U}$  fission products by the sorption process from water solution using coal sorbent SKS was investigated. The sorption coefficient values in range 0,7 - 0,9 was obtained. The possibility of  $^{135}\text{Xe}$  independent yield determination by comparison of  $^{135}\text{Xe}$  activity in solution filtered throat SKS sorbent with activity control solution is shown. The obtained value independent  $^{135}\text{Xe}$  yield,  $0,5 \pm 0,15$ , is in good agreement with those obtained by other methods. Using of the sorption process of fission fragment may have a significant importance in ecology and for the exit nuclear fission channels investigation.